

# Wiring, Circuit Protection and Bulb Charts

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## **PART 36-01 General Wiring,Circuit Protection and Bulb Chart Service**

Wherever high or low series models are designated, high series indicates the LTD, XL and Country Squire on Ford models; and on Mercury models, high series indicates the Marquis, Brougham Marauder and Marquis

Colony Park. All other Ford and Mercury models are low series.

Refer to the Wiring and Vacuum Diagrams Manual Form 7795P-70 for electrical schematic wiring diagrams, vacuum schematic diagrams and the

locations of wiring and vacuum harnesses and lines.

Refer to the Car Diagnosis Manual, Form FD 7962 for diagnosis procedures.

## PART 36-02 Wiring Harnesses

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## 1 WIRING HARNESS REMOVAL AND INSTALLATION—FORD, METEOR AND MERCURY

### INSTRUMENT PANEL TO DASH PANEL—FORD, METEOR AND MERCURY

First remove the instrument panel pad as described in Part 47-03, and the instrument cluster as described in Part 33-03.

Remove the left cowl trim panel and scuff plate, fold back the carpet and remove the shield from the wiring. Remove the dimmer switch from the floor (two retaining nuts), and disconnect the multiple connector. Disconnect the three connectors to the rear lights.

Remove the bolt that connects the fuse panel to the multiple connector on the dash panel, and pull the fuse panel from the connector.

From under the hood, disconnect the wire leads at the brake valve, wiper motor, and wiper governor; and, then, push the leads and grommet back into the vehicle.

Remove the clips that hold the harness to the brake support by removing the clip retaining screws, and remove the harness locator.

Disconnect the light and ignition switch plugs, remove the four strap clips, and work the harness out to the left of the brake support.

At the right side of the instrument panel, disconnect the door jamb switch, and work the harness to the left. Disconnect the plugs at the stop light switch, at the turn signal switch lead and at the turn signal and emergency warning flashers. Disconnect the two wire leads to the relay at the lower edge of the instrument panel

(two nuts), and remove the harness. When installing the new harness, transfer the fuses to the fuse panel on the new harness.

### DASH TO HEADLIGHT JUNCTION—FORD, METEOR AND LOW SERIES MERCURY

From inside the vehicle, remove the bolt that attaches the fuse panel to the multiple connector on the dash panel, and unplug the fuse panel from the connector. Release the tabs that retain the wires in the multiple connector, and push the wiring harness through the dash into the engine compartment.

Remove the harness locator clip, disengage the harness from the clips along the left fender apron, and lift the harness out of the vehicle as far as the radiator left support.

Disconnect the lead wires at the horns and washer pump, and disconnect the horn ground wire by removing the ground screw. Disconnect the connector plugs at the lead wires going to the left parking light and side marker light. Disengage the harness locating clips at the radiator left support.

Remove the horn that is directly behind the left headlights to provide clearance for withdrawing the harness from the headlights.

On low series vehicles, unplug the harness from behind the headlight sealed beam bulbs and withdraw the harness out through the radiator left support.

On high series vehicles, the harness

can not be unplugged from the bulbs from the rear.

Remove the high series bulbs (both left and right) and disconnect the plugs at the front of the vehicle. Refer to Part 32-02 for headlight removal.

After disconnecting the harness from the headlights on the right side, pull the harness back through the radiator right support. Remove the ground wire (one screw) and disengage the harness locating clips from the radiator right support. Disconnect the connector plugs at the lead wires going to the right parking light and side marker light.

Disconnect the wire lead to the regulator at the bullet connector and the ground lead by removing the ground screw. Work the harness out to the front of the radiator support.

Disengage the locating clips from across the top of the radiator and supports, and lift the remainder of the harness from the vehicle.

### DASH TO HEADLIGHT JUNCTION—MERCURY HIGH SERIES

From inside the vehicle, remove the bolt that attaches the fuse panel to the multiple connector on the dash panel, and unplug the fuse panel from the connector. Release the tabs that retain the wires in the multiple connector, and push the wiring harness through the dash into the engine compartment.

Disengage the harness locator clips from the top of the left fender apron. Disengage the harness from the clip

on the apron near the radiator left support, and pull the harness out to this point.

The upper section of the radiator grille and the four sealed beam headlight bulbs have to be removed for access to the headlight bulb, parking light, and side marker light connector plugs. Refer to Part 32-02 for headlight removal.

Disconnect the harness from the

four headlight bulbs. Disconnect the left and right parking and side marker plugs through the left and right headlight openings respectively. Withdraw the harness through the rear side of the radiator left and right support.

Disconnect the lead going to another harness at the bullet connector. Disengage the harness from the clips on the right fender lip near the battery.

Push the harness locator clips out of the hood extension, and disconnect the two ground wires on the radiator support.

Working from right to left through the grille opening and the headlight openings, work the harness across the front of the radiator support. Disconnect the lead wires at the horns and washer pump, and remove the harness from the vehicle.

## 2 WIRING HARNESS REMOVAL AND INSTALLATION—MUSTANG AND COUGAR

### INSTRUMENT PANEL TO DASH PANEL

Remove the left scuff plate and cowl trim panel and disconnect the left courtesy light switch.

Pull the carpet down, disconnect the multiple connector from the dimmer switch, and route the wires around the emergency brake pedal.

Remove the bolt that connects the fuse panel block to the multiple connector on the dash panel, and pull the fuse block from the connector.

Remove the instrument panel pad. See Part 47-03. Remove the headlight switch and disconnect the wires at the wiper and ignition switches and the multiple plug for the turn indicator switch at the steering column.

Remove the center air duct and then the right and left air ducts. Disconnect the ground wire from the left side of the instrument panel (one screw).

From under the hood, disconnect

the plugs that connect to the wiper motor harness and another (14289) harness. Push the wiring into the vehicle through the dash.

Remove the radio and disconnect the antenna wires. Remove the heater control head (two bolts) and disconnect the wires at the heater switch.

Disconnect the wires at the stop light switch and relays, heater resistor, glove box light, turn signal connector, and thermostatic switch. Remove the wires from the clip. Disengage the harness from the clips that retain it to the instrument panel. Remove the locator clip at the center and the clip retained by a screw at the left side.

Remove the right courtesy light switch and disconnect the wires. Disconnect and pull out all right hinge pillar wires. Disconnect the harness from all multiple connectors on the left side, and remove the harness from the vehicle.

When installing the new harness,

transfer all bulbs, flashers and fuses to the new harness assembly.

### DASH TO HEADLIGHT JUNCTION

From inside the vehicle remove the bolt that attaches the fuse panel to the multiple connector on the dash panel and unplug the fuse panel from the connector. Depress the tabs and push the connector and harness assembly out into the engine compartment.

Disconnect the lead wire connector at the brake differential switch and at the washer motor.

Disconnect the harness plugs at all four headlight bulbs and at the left and right parking light, and side marker light leads. Disconnect the lead wires at the horns.

Disengage the harness from the retaining clips under the battery carrier, across the front of the stone shield, and along the left fender apron. Remove the harness from the vehicle.

## 3 WIRING HARNESS REMOVAL AND INSTALLATION—FALCON, MAVERICK, FAIRLANE AND MONTEGO

### INSTRUMENT PANEL TO DASH PANEL—FALCON

#### REMOVAL

1. Disconnect the battery ground (negative) cable.

2. Remove the instrument panel pad (Refer to Group 47, Part 03).

3. Remove the five screws retaining

the instrument cluster to the instrument panel and position the cluster out.

4. Disconnect the speedometer cable, heater control illumination bulb, heater control cables, and remove the clamp retaining the heater cables to the control. Unplug the heater switch connector and the printed circuit multiple connector. Remove

the instrument cluster.

5. Remove the screw retaining the fuse panel to the dash panel.

6. Pull back the carpet and remove the screws retaining the headlight dimmer switch. Disconnect and remove the dimmer switch.

7. Pull the left courtesy light switch from the pillar and disconnect the switch (Refer to Wiring Diagram

Manual, Form 7795P-69 for schematics and locations of wiring harnesses). Disconnect the 14405 wiring assembly plug, emergency flasher, and left courtesy light. Also disconnect the headlight switch, windshield wiper switch connectors, and the wiring assembly locator.

8. Unplug the turn signal flasher and steering column feed connectors.

9. Disconnect the stoplight switch, neutral and back-up switch connector, and the radio feed wires.

10. Disconnect the ignition switch plug, seat belt warning switch, cigar lighter, and ash tray bulb.

11. Remove the ground screw on the lower edge of the instrument panel. Disconnect the glove compartment light connector, the right courtesy light connector, right courtesy light switch, the wiring assembly locator clip, heater resistor and motor leads, and the ignition switch bulb.

12. Remove the wiring assembly from the wiring assembly clips and remove the assembly.

13. If a new wiring assembly is to be installed, transfer the fuses from the old assembly.

## INSTALLATION

1. Position the wiring assembly in the assembly retaining clips and also position the two locator clips.

2. Connect and install the right courtesy light switch, heater resistor and motor leads, glove compartment light, cigar lighter, and ash tray bulb. Also connect the seat belt warning switch and the ignition switch illumination bulb.

3. Connect the emergency flasher, the stoplight switch, the neutral and back-up light switch, and the radio feed wires.

4. Plug in the connectors to the turn signal flasher and the steering column feed.

5. Connect the connectors to the windshield wiper and washer switch, headlight switch, and the 14405 wire assembly. Also connect and install the left courtesy light switch.

6. Connect the headlight dimmer switch to the wiring assembly. Position the switch to the floor and install the two retaining screws and position the carpet.

7. Position the fuse panel to the dash panel and install the retaining screw.

8. Connect the heater control cables to the heater controls and install the retaining clamp. Plug in the heater switch connector and the print-

ed circuit multiple connector. Install the heater control illumination bulb and connect the speedometer cable.

9. Position the cluster to the instrument panel and install the five retaining screws.

10. Install the instrument panel pad.

11. Connect the battery ground (negative) cable, and check the operation of the instrument panel gauges, lights, and controls.

## INSTRUMENT PANEL-TO-DASH PANEL—MAVERICK

### REMOVAL

1. Disconnect the battery ground cable.

2. From under the instrument panel, disconnect the speedometer cable at the quick connect. Remove the two cluster retaining screws, swing the cluster out, disconnect the cluster feed multiple plug and remove the cluster.

3. Remove the four screws retaining the radio to the instrument panel, remove the radio rear support nut, pull the radio from the instrument panel, disconnect the plugs to the speaker and antenna and remove the radio.

4. Pull off the heater/AC control knobs and pry off the heater/AC control panel and lens assembly. Remove the control-to-instrument panel retaining screws, position the control out of the panel opening, disconnect the blower switch, light bulb, and the temperature and defroster cables (remove screws and clips), and remove the heater/AC control.

5. Drop the headlight switch from behind the instrument panel and disconnect the multiple plug from the switch. Disconnect the plug from the wiper switch.

6. If equipped with air conditioning, remove the connector and duct assembly (1 retaining screw) from the center register. If equipped with heater only, remove the left duct assembly, and remove the right duct assembly. Remove the center register (2 screws).

7. Disconnect the plug from the turn signal flasher. Disconnect and remove the courtesy light switch from the left front door hinge pillar and pull the wiring free of the pillar.

8. Remove the left cowl trim panel and fold the floor carpet back for access to the dimmer switch. Disconnect the multiple plug.

9. Remove the bolt that retains the

fuse panel to the dash panel. Open the two clips and remove the fuse panel from the dash.

10. Disconnect the multiple plug to the back-up and rear turn signal lights. Disconnect the bullet connectors at the fuel gauge sender unit lead and at the dome light feed wire, pull the dome light wires from the cowl.

11. Remove the two screws that retain the wiring harness to the instrument panel back flange and remove the ground wire from the flange (1 screw).

12. Disconnect the harness plugs from the emergency flasher and from plugs going to the wiper motor, stop light switch, steering column wiring, cigar lighter, neutral switch (if so equipped), and ignition switch.

13. Remove the shield from over the right half of the harness (three screws). Disconnect the blower motor resistor feed connector and the ash tray light. Remove the courtesy light switch from the right front door hinge pillar. Attach a cord to the wiring to pull it from the pillar back behind the instrument panel.

14. Remove the harness from the vehicle by pulling it out through the instrument cluster opening.

### INSTALLATION

1. Transfer the five fuses to the fuse panel on the new harness. Feed the entire harness thru the instrument cluster opening, position it along the rear of the instrument panel and install the two screws that retain the harness to the left side of the instrument panel back flange. Connect the ground wire to the flange (1 screw).

2. Route the courtesy light switch wiring to the left and right front door hinge pillars and connect the switch at each door hinge pillar.

3. Connect the harness leads to the motor resistor feed connector and to the ash tray light. Install the shield over the right half of the harness and secure with three retaining screws.

4. Connect the harness plugs to the turn signal and emergency flasher units and to the plugs on the wires going to the wiper motor, stop light switch, steering column wiring, cigar lighter, neutral switch (if so equipped) and ignition switch.

5. Connect the harness multiple plug to the plug for the wires going to the back-up and rear turn signal lights. Connect the harness leads to the bullet connectors on the fuel gauge sender unit lead and dome light feed wire.

6. Install the fuse panel to the dash panel (1 bolt) and connect the harness multiple plug to the dimmer switch.

7. Install the center register and heater/air conditioning ducts.

8. Connect the harness multiple plugs to the wiper and headlight switch and install the headlight switch.

9. Connect the harness leads to the blower switch and light bulb on the heater control and connect the control cables to the heater control unit. Position the control unit in the opening in the instrument panel, install the retaining screws, and snap the control panel and lens assembly into place.

10. Connect the harness plugs to the radio and install the radio.

11. Install the instrument cluster and connect the battery ground cable.

#### INSTRUMENT PANEL TO DASH PANEL—FAIRLANE

##### REMOVAL

1. Disconnect the battery ground cable.

2. Remove the instrument panel cover assembly (See Part 47-03).

3. From the front of the cluster, remove the four screws that retain the cluster to the instrument panel, and position the cluster part way out of the panel.

4. Disconnect the speedometer cable, the multiple plug to the printed circuit, and the feed plug to either the clock or tachometer (if so equipped). Disengage the three wiring harness-connected indicator light bulb, and socket assemblies from their receptacles. Disconnect the cable and five vacuum hoses from the heater control. Disconnect the feed plug to the heater control switch and the connector to the heater control light bulb. Remove the cluster.

5. Remove the screw retaining the fuse panel to the dash.

6. Pull the carpet back and remove the two screws retaining the headlight dimmer switch and disconnect the push on connector.

7. Pull the left courtesy light switch from the door pillar and disconnect the switch.

8. Disconnect the 14405 wiring assembly connector, emergency flasher, and courtesy light under the instrument panel. Disconnect the headlight switch, one harness locator, and the windshield-wiper-washer switch.

9. Disconnect the turn signal flasher and steering column feed connectors.

10. Disconnect the stop light switch and back-up light switch leads, and the radio feed wire.

11. Disconnect the cigar lighter, and remove the ground screw from the lower edge of the instrument panel.

12. Disconnect the glove compartment light, right courtesy light, right door courtesy light switch, blower motor resistor feed multiple connector and motor lead, and one clip locator.

13. Remove the wire assembly from the four retaining clips and remove the assembly from the vehicle.

##### INSTALLATION

1. If the wiring assembly is being replaced, transfer the six fuses to the new assembly.

2. Position the wiring assembly to the vehicle using the four clips and two locators.

3. Connect and install the right door courtesy light switch and blower motor resistor feed connector and motor lead.

4. Connect the glove compartment light and cigar lighter. Install the ground screw on the lower edge of the instrument panel.

5. Connect the back-up light switch leads, and the radio leads.

6. Connect the turn signal flasher and steering column feed.

7. Connect the windshield wiper-washer switch, headlight switch, emergency flasher, the 14405 wiring assembly leads, and install the left door courtesy switch.

8. Connect the headlight dimmer switch lead and install the switch.

9. Position the fuse panel to the dash and install the retaining screw.

10. While holding the instrument cluster near its opening in the instrument panel, connect: the feed plug to the heater control switch and the heater control light bulb to its feed connector; the cable and the five vacuum hoses to the heater control; the three lights (from the wiring harness) into their socket receptacles; the multiple feed plug to the printed circuit; and the feed plug to either the clock or tachometer (if so equipped).

11. Position the cluster to the instrument panel and install the four retaining screws.

12. Connect the battery ground cable and check the operation of the wiring assembly.

13. Position and install the instrument panel cover assembly (Part 47-03).

#### INSTRUMENT PANEL TO DASH PANEL—MONTEGO

##### REMOVAL

1. Open the hood and disconnect the battery ground cable.

2. Remove the heater control and left finish panels and the instrument panel pad as outlined in Part 47-03. From the front of the cluster, remove the four cluster-to-instrument panel retaining screws and position the cluster part way out of the panel.

3. Disconnect the speedometer cable and the cluster feed plug from its receptacle in the printed circuit. Disconnect the electrical plug to the clock and remove the cluster.

4. Remove the screw retaining the fuse panel to the dash (Refer to Wiring Diagrams Book for schematics and locations of wiring harnesses).

5. Pull back the carpet and remove the two screws retaining the dimmer switch to the floor. Remove and disconnect the switch.

6. Pull the courtesy light switch from the left door pillar and disconnect the switch. Disconnect the 14405 wiring assembly connector, the emergency flasher, courtesy lamp under the instrument panel, headlight switch and wiper-washer switch. Disconnect the harness locator along the upper edge of the instrument panel.

7. Disconnect the turn signal flasher unit and the steering column feed connector.

8. Disconnect the connectors for the stoplight switch, neutral and back-up light switch, and the radio feed wires.

9. Disconnect the ignition switch plug, seat belt warning switch, if so equipped, cigar lighter, and the ash tray bulb.

10. Remove the ground screw along the lower edge of the instrument panel. Disconnect the glove compartment light, the right courtesy light, and the right door courtesy light switch. Disconnect the locator clip, and the blower resistor and motor leads.

11. Remove the harness from the four retaining clips and remove the harness from the vehicle. Remove the fuses from the fuse panel.

##### INSTALLATION

1. Install the fuses in the fuse panel. Position the harness in the vehicle using the four harness clips and two locators.

2. Connect and install the right

door courtesy switch. Connect the heater motor feed connector and heater resistor feed connector.

3. Connect the glove compartment light, cigar lighter, ash tray bulb, seat belt switch, if so equipped, and the ignition switch bulb.

4. Connect the feed connectors to the stop light switch, emergency flasher unit, neutral and back-up light switch, and the radio feed.

5. Connect the feeds to the turn signal flasher unit and steering column connector.

6. Connect the connectors to the wiper-washer switch, headlight switch, and the 14405 wiring assembly. Connect and install the left door courtesy light switch.

7. Connect the dimmer switch to the wiring harness and install the switch on the floor and position the carpet.

8. Position the fuse panel to the dash and install the retaining screw.

9. When installing the cluster, first position it near the opening in the instrument panel and then connect the speedometer cable to the speedometer and the electrical plugs to the printed circuit and clock. Mount the cluster to the panel and install the four retaining screws.

10. Install the instrument panel pad and the heater control and left finish panels as outlined in Part 47-03.

11. Connect the battery ground cable. Check the operation of the instrument panel lights and controls.

#### DASH TO HEADLIGHT JUNCTION—FALCON

##### REMOVAL

1. Disconnect the battery ground cable.

2. Under the instrument panel, remove the screw retaining the fuse panel to the dash.

3. Remove the block connector from the rear of the fuse panel. Depress the tabs on the block connector and push it through the opening in the dash.

4. Disconnect the connectors to the wiper motor and the engine gauge feeds. Remove the harness from the retaining clip on the dash below the wiper motor.

5. Disconnect the lead wire for the brake warning light on the brake differential valve. Remove the screw retaining the harness clip on the left fender apron.

6. Open the thirteen harness retaining clips along the left fender apron and the radiator support to the starter relay. Also remove two screws retaining the wiring harness clips.

7. Disconnect the plug connector at the voltage regulator and the lead wire from the washer pump. Remove the screw retaining the ground wire at the voltage regulator.

8. Disconnect the connector plugs to the left headlight, left parking light, and horn.

9. Unplug the connectors to the right headlight, parking light, and horn.

10. Disconnect the three push-on connectors at the starter relay and one multiple connector to the alternator.

11. Remove the two bolts from the radiator support on either side of the hood latch assembly to allow for removal of the harness.

12. Working from right to left remove the harness.

#### INSTALLATION

1. Position and route the wiring harness in the vehicle.

2. Connect the three plug connectors to the starter relay and the block connector to the alternator.

3. Connect the plug connectors to right headlight(s), parking light, and horn.

4. Install the two bolts in the radiator support, being sure that the harness is routed behind the support.

5. Plug in the left headlight(s), parking light, and horn assemblies.

6. Connect the plug connectors to the voltage regulator and washer pump. Position the ground wire at the regulator and install the retaining screw.

7. Push the block connector into place in the dash. Connect the plugs to the wiper motor and the engine gauge feed. Connect the brake warning light connector on the brake differential valve. Position the harness in the retaining clip on the dash and install the one harness clip and retaining screw on the left fender apron.

8. Position the harness in the thirteen harness clips and close the clips.

9. Reaching under the instrument panel, connect the fuse panel to the block connector from the wiring harness. Position the fuse panel to the dash and install the retaining bolt.

10. Connect the battery ground cable and check the operation of the components connected to the harness.

#### DASH TO HEADLIGHT JUNCTION—MAVERICK

##### REMOVAL

1. Disconnect the battery ground cable.

2. Under the instrument panel, remove the screw retaining the fuse panel to the block connector on the dash.

3. Separate the fuse panel from the block connector. Depress the tabs on the block connector and push it through the opening in the dash.

4. Working in the engine compartment open up fifteen harness retaining clips. Start with the clip on the dash below the wiper motor and continue along the left fender apron and across the radiator support. Two of the clips are retained by screws.

5. At the left rear of the engine compartment, unplug the lead wires to the engine gauge sending units, the brake differential valve and the windshield washer.

6. At the left front of the engine compartment, unplug the lead wires to the horn, the left headlight, parking light and side marker light. Remove the screw retaining the ground wire to the left side of the radiator support.

7. Disconnect the harness at the starter relay (two push-on type connectors and one lug type) and at the alternator-regulator cone bullet-type

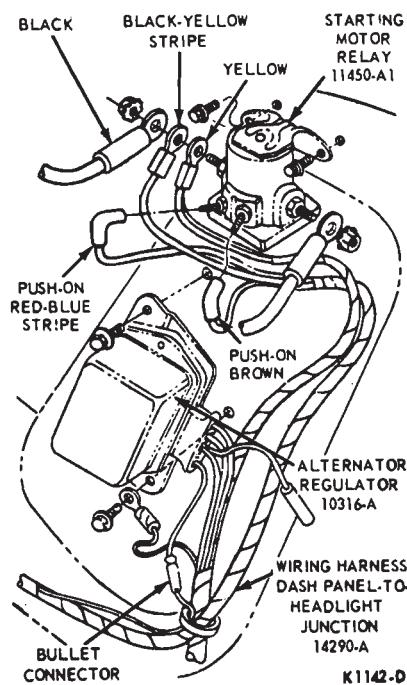


FIG. 1—Starting Motor Relay and Alternator Regulator Wiring Connections—Maverick

connector) (Fig. 1).

8. At the right front of the engine compartment, unplug the lead wires to right headlight, parking light and side marker light. Remove the screw retaining the ground wire to the right side of the radiator support.

9. Loosen the two radiator-to-support upper bolts to provide clearance for removing the harness. Working from right to left, remove the harness.

#### PASH TO HEADLIGHT JUNCTION—FAIRLANE AND MONTEGO

##### REMOVAL

1. Disconnect the battery ground cable.

2. Under the instrument panel, remove the screw retaining the fuse panel to the dash.

3. Remove the block connector from the rear of the fuse panel. Depress the tabs on the block connect and push it through the opening in the dash.

4. Disconnect the harness connectors to the windshield wiper motor and the engine gauge feed and disengage the two harness locators on the dash panel below the wiper motor.

5. Disconnect the lead wire for the

brake indicator light at the brake differential valve. Pry out five harness locators and open one harness retaining clip along the left fender apron. Disconnect the plug to the windshield washer pump.

6. Disengage the harness locator at the radiator left support and disconnect the connector plugs to the left headlights, parking light, side marker light and horns. Push the grommet from the radiator support.

7. Pry out the four harness locators from the front crossmember. Disconnect the connector plugs to the right headlights, parking light and side marker light and push the grommet through the radiator right support.

8. The harness ends in three wire leads at the starter relay, two push-on connectors and one held to a terminal post with a nut. Disconnect these wires and note the color code and location of each for proper reconnection. Disconnect the lead to the alternator regulator.

9. Disconnect the harness ground wire (1 screw) and open two retaining clips. Remove the harness from the vehicle.

##### INSTALLATION

I. Position and route the complete

new harness starting at the right side of the engine compartment near the starter relay. Close the two retaining clips and engage the harness locators in the front crossmember and along the left fender apron. Seat the grommets in the radiator support.

2. Connect the harness leads at the starter relay, connect the ground wire, and connect all the harness connectors to the alternator regulator, headlights, side marker lights, parking lights, horns, and windshield washer pump.

3. Push the block connector (on the end of the harness) into the opening in the dash panel. Connect the plugs to the wiper motor and the engine gauge feed. Connect the brake indicator light connector on the brake differential valve.

Engage the two harness locators in their holes on the dash panel below the wiper motor.

4. From inside the vehicle, reach under the instrument panel and connect the fuse panel to the block connector from the wiring harness. Position the fuse panel to the dash and install the retaining bolt.

5. Connect the battery ground cable and check the operation of the components connected to the harness.

## 4 WIRING HARNESS REMOVAL AND INSTALLATION—THUNDERBIRD AND CONTINENTAL MARK III

#### DASH-TO-HEADLIGHT JUNCTION—THUNDERBIRD

##### REMOVAL

1. Disconnect the battery. Disconnect three multiple connectors at the left side of the dash panel in the engine compartment and one locator in the left fender apron. Push out one locator at the center of the fender and pull the harness toward the front of the vehicle.

2. Remove the ground screw from the ground wire on the radiator left support and disconnect the harness at the connector plugs for the horns, windshield washer pump, left parking light and for the left cornering and side marker lights. Pull the harness back between the fender and the left

radiator support and push out the harness locator at the hood left bumper.

3. From under the vehicle, disconnect both left headlight connector plugs and the sport light plug if so equipped. Pull the wiring and connectors through the radiator support.

4. Pry out the four harness locators that are installed in holes across the radiator support.

5. From under the right side of the vehicle, disconnect both right headlight connector plugs and the right sport light plug if so equipped.

6. Disconnect the ground wire from the radiator right support (1 screw). Disconnect the parking light, cornering light and side marker light plugs, and pull the harness out of the vehicle.

##### INSTALLATION

1. Starting at the radiator right support, position and route the harness across the front of the vehicle to the radiator left support and along the left fender apron to the left side of the dash panel.

2. Connect the ground wire (1 screw) to the radiator right support, and connect the parking light, side marker and cornering light plugs. Connect the plugs for the two right headlights from underneath the vehicle. Also connect the right sport light plug, if so equipped.

3. Secure the harness in place across the radiator support by pushing in the five locators into their respective holes.

4. Push the headlight connector plugs and wiring through the openings

in the radiator left support and connect the plugs from under the vehicle. Also, connect the left sport light plug, if so equipped.

5. Connect the plugs to the left parking light, cornering light and side marker light. Connect the ground wire (one screw) to the radiator left support. Connect the plugs to the windshield washer pump and horns.

6. Push the harness locator in its hole at the center of the left fender, connect the three multiple connectors at the left side of the dash panel and push in the locator in the left fender apron.

7. Connect the battery and check the operation of the lights, horns and windshield washer.

#### DASH-TO-HEADLIGHT JUNCTION—CONTINENTAL MARK III

##### REMOVAL

1. Disconnect the battery and disconnect two harness multiple plugs at the left side of the dash panel. Pull out one harness locator from the left fender apron.

2. Disengage three harness locators from their holes along the top of the left fender apron, and pull the harness to the front of the vehicle. Open two clips on the radiator left support and disconnect the plugs to the washer pump, left parking light, high pitch horn, and the headlight cover indicator switch. Disconnect the ground wire from the radiator left support (1 screw).

3. Raise the front of the vehicle. From underneath the vehicle, disconnect the left side low pitch horn plug and disengage two harness locators. Disconnect both left headlight plugs. Pull the harness down, then up between the radiator support and left fender apron.

4. From underneath the vehicle disconnect the two right headlight plugs. Disengage two locators and disconnect the plug from the right low pitch horn.

5. Disconnect the ground wire from the radiator right support (1 screw). Open the clip and disconnect the right parking light and headlight cover indicator switch plugs. Pull the harness wiring up between the radiator support and right fender apron.

6. Pry the harness locator out of its hole in the center of the radiator support. Remove both left and right radiator support upper brackets (1 bolt each) and remove the harness

from the vehicle.

##### INSTALLATION

- Transfer the harness cover to the new harness. Starting at the radiator right support, position and route the harness across the front of the vehicle to the radiator left support and along the left fender apron to the left side of the dash panel. Engage the harness locators in the hole at the center of the radiator support and the three holes along the top of the left fender apron.

- Connect the ground wire to the radiator right support (1 screw) and connect the plugs to the right parking light and right headlight cover indicator switch. Gather the wiring into the retaining clip on the radiator support and close the clip.

- From underneath the vehicle, engage the two locators (behind the headlights) and connect the plugs to the right low pitch horn and the two right headlights. Engage one locator under the fender.

- From underneath the left side of the vehicle, connect the plugs to the left side low pitch horn and both left headlights. Engage the two harness locators.

- Lower the vehicle and connect the plugs to the left headlight cover indicator switch, the high pitch horn, the left parking light and windshield washer pump. Connect the ground wire to the radiator left support (1 screw). Arrange the wiring into the two retaining clips on the radiator left support and close the clips.

- Install both left and right radiator support upper brackets (1 bolt each). Engage one harness locator in the hole at the rear of the left fender apron, and connect the two multiple connectors at the left side of the dash panel.

- Connect the battery and check the operation of the lights, horns and windshield washer.

#### DASH PANEL TO ENGINE—THUNDERBIRD AND CONTINENTAL MARK III

##### REMOVAL

- Disconnect the battery, remove the air cleaner and raise the vehicle on a hoist.

- Remove the bolt that holds the harness retaining clip to the rear right side of the engine. Open the clip and remove it from the harness.

- Disconnect the harness at the

starter solenoid (three leads retained to the terminals by nuts). Note the color code of each lead and its terminal for proper reconnection.

- Disconnect the three harness leads at the alternator noting the color code for proper reconnection. Remove the alternator adjusting arm bolt, loosen the through bolt and disengage the belts from the pulley. Swing the alternator upwards to provide clearance so that the harness can be pulled out between the alternator and the engine.

- Lower the vehicle and disconnect the plugs (four multiple and one single connectors) at the rear left side of the engine.

- Remove the two locators from the engine right valve cover, work the harness wiring out, and remove the plastic cover from the harness.

- Disconnect the harness leads to the A/C clutch, the ignition coil, and the temperature gauge sending unit. Work the leads out.

- At the voltage regulator, disconnect the ground screw, and one multiple and one single connector.

- Remove the three harness locator clips along the right fender apron, and remove the harness retaining clip (1 bolt) from the front of the right cylinder head. Remove the harness from the vehicle.

##### INSTALLATION

- Position and route the complete harness by pushing the two locators in the engine right valve cover and the three locator clips along the right fender apron. Attach the harness retaining clip (1 bolt) to the front of the right cylinder head.

- Connect the ground screw and the multiple and single connector plugs at the voltage regulator.

- Connect the harness leads to the A/C clutch, the ignition coil and the temperature gauge sending unit.

- At the rear left of the engine, connect four multiple plugs and one single connector.

- Raise the vehicle on a hoist, route the harness leads up between the alternator and the engine, and connect the three leads to the alternator according to the color code noted during removal. Swing the alternator back into position, install the adjusting arm bolt snug, and position the belts on the pulley. Adjust the belts to specified tension (Group 31). Tighten the adjusting arm bolt and through bolt.

- Connect the three harness leads

to the terminals on the starter solenoid according to the color code noted during removal (3 retaining nuts).

Position and close the retaining clip on the harness and mount the clip to the rear right side of the engine (1 bolt).

7. Lower the vehicle, install the plastic cover on the harness, and connect the battery. Install the air cleaner.

8. Check the operation of the starter, the engine, the alternator, the air conditioner and the temperature gauge.

#### INSTRUMENT PANEL TO DASH PANEL—THUNDERBIRD AND CONTINENTAL MARK III

##### REMOVAL

1. Disconnect the battery cable and remove the instrument cluster and the rear vent and wiper controls, following the procedure under Instrument Cluster Removal, Part 33-03.

2. Remove the seven screws retaining the lower finish panel to the instrument panel and remove the lower finish panel.

3. Remove the radio knobs and radio control discs from both radio shafts. Remove the nut from the right radio shaft sleeve. Remove the six screws retaining the instrument panel center register panel, and remove the register panel. Remove the left defroster duct.

4. Remove the nut and lock washer from the right radio shaft sleeve. Remove the radio retaining screw from the instrument panel at the lower left of the radio dial opening. Remove the radio retaining screw from the support bracket at the center rear of the radio. Disconnect the antenna lead, the radio power lead and the speaker lead(s). Remove the radio.

5. Remove the two screws retaining the lower trim panel which contains the ignition switch and ash tray, and allow the lower trim panel to hang down.

6. Remove the three screws and the stud nut retaining the left register panel, and allow the register panel to hang down.

7. Remove the headlight switch (refer to Headlight Switch Removal, Part 32-02).

8. Remove the right and, left air conditioner ducts, if so equipped.

9. Disconnect the multiple connectors at the steering column wiring, back-up light and ignition switch wiring, seat belt warning light switch ter-

minals (on the brake pedal support), stop light switch wiring, and heater blower switch wiring. Remove the left footwell courtesy light bulb and socket from the bracket. Disconnect the connectors to the automatic climate control head, air conditioner clutch circuit (near the blower switch wires) and speed control, if so equipped.

10. Remove the screws retaining the five wiring assembly clips to instrument panel brackets.

11. Disconnect the connector at the dimmer switch. Remove the straps on the dimmer switch wiring from the studs. Disconnect the four multiple connectors and two single wire connectors to the left door wiring. Disconnect the grounded wire terminal.

12. From the left side of the engine compartment, disconnect the brake warning switch connector at the pressure differential valve and the three connectors to the dash to left headlight junction wiring assembly. Also disconnect the connector to the engine wiring harness and remove the wires from the two straps on the dash panel. Push the wiring assembly rearward through the dash panel.

13. Disconnect the multiple connector to the power window safety relay on the engine compartment side of the dash panel, behind the left cylinder head. Push the wiring assembly rearward through the dash panel.

14. From the right side of the engine compartment, disconnect the five multiple connectors to the dash to right headlight junction wiring assembly and the connectors to the heater blower motor, resistor and relay. Disconnect the connector to the air conditioner icing switch, if so equipped. Push the wiring assembly rearward through the dash panel.

15. Disconnect the cigar lighter connector.

16. Disconnect the windshield washer switch connector from the back of the wiper and rear vent control assembly.

17. Remove the six screws retaining the glove compartment to the instrument panel, and remove the glove compartment.

18. Disconnect the connectors to the map light switch and the glove compartment light. Also disconnect the connectors to the power antenna switch, the automatic climate control power servo (3 connectors) and the two automatic climate control sensors, if so equipped. Remove both flasher units from the retaining clips.

19. Remove the two screws retaining the circuit breaker panel to the

dash panel, and remove the circuit breaker panel.

20. Remove the two screws retaining the fuse panel to the instrument panel bracket, and remove the fuse panel. Remove the right footwell light bulb and socket from the bracket.

21. Disconnect the two multiple connectors and two single wire connectors to the right door wiring. Remove the screw attaching the black wire terminal to the right side panel.

22. Remove the right defroster duct. Remove the wiring assembly shield from the dash panel behind the dash to instrument panel support rods. Disengage the wiring assembly locator from the bracket near the center of the cowl panel and remove the wiring assembly from the vehicle.

##### INSTALLATION

1. Transfer all bulbs, fuses, circuit breakers, flasher units and clips to the new wiring assembly.

2. Position the wiring assembly in the vehicle, working the assembly in place from right to left. Route the wiring assembly through the dash panel at the right side (2 places) and the left side (3 places). Press wiring assembly grommets into place in the dash panel openings.

3. Install the screws retaining the five wiring assembly clips to the cowl. Press the wiring assembly locator into the hole in the bracket near the center of the cowl panel.

4. Position the circuit breaker panel to the dash panel and install the two retaining screws.

5. Position the fuse panel to the bracket at the right side of the glove compartment opening and install the two retaining screws. Install the right footwell light socket and bulb in the bracket.

6. Install the screw retaining the black wire terminal to the right side panel. Connect the two multiple connectors and the two single wire connectors to the right side body wiring connectors.

7. Install both flasher units in the proper retaining clips.

8. Connect all connectors on the right side—to the map light switch, glove compartment light, automatic-climate control power servo and sensors, and power antenna switch, if so equipped.

9. Connect the windshield washer switch connector to the back of the wiper and rear vent control assembly. Connect the lighter connector.

10. Connect the multiple connec-

tors to the steering column wiring, stop light switch, back up light and ignition switch, seat belt warning light switch and heater blower switch. Connect the connectors to the automatic climate control head, air conditioner clutch circuit, and speed control, if so equipped.

11. Connect the connectors to the left door wiring, and install the screw retaining the grounded wire terminal. Connect the dimmer switch connector and install the wiring assembly straps to the studs.

12. Install the wiring assembly shield to the dash panel behind the dash to instrument panel support rods, retaining the wiring assembly.

13. Install the right defroster duct. Install both air conditioner ducts, if so equipped.

14. Connect the antenna lead, power lead, and speaker lead(s) to the radio. Position the radio to the instrument panel and install the retaining screw at the lower left of the

radio dial opening in the panel. Install the screw attaching the back of the radio to the support bracket. Install the lock washer and nut to the sleeve of the right shaft of the radio.

15. Install the instrument panel center register panel with the six retaining screws. Install the nut to the right radio shaft sleeve. Install the radio knobs and control disc to the shafts.

16. Install the left defroster duct.

17. Connect the connector to the headlight switch. Connect the three vacuum hoses to the distribution valve at the rear of the switch.

18. Install the left register panel, retaining it with three screws and a stud nut.

19. Position the headlight switch to the panel. Install the bezel nut and install the stem and knob assembly. (Refer to Headlight Switch Installation, Part 32-02).

20. In the engine compartment, connect the connectors to the dash to

left headlight junction wiring assembly, the brake warning switch, the engine wiring harness, the power window safety relay, the dash to right headlight junction wiring assembly, and to the heater blower motor, resistor and relay. Connect the connector to the air conditioning icing switch, if so equipped. Retain the wiring to the engine wiring harness connector with the two straps on the dash panel.

21. Position the lower trim panel (with the ash tray) to the instrument panel and install the retaining screws.

22. Position the lower finish panel to the instrument panel and install the seven retaining screws.

23. Install the rear vent and wiper control assembly and the instrument cluster, following the procedure under Instrument Cluster Installation, Part 33-03.

24. Connect the battery ground cable and check the operation of the instrument panel gauges, controls and lights.

## 5 WIRING HARNESS REMOVAL AND INSTALLATION-LINCOLN CONTINENTAL

### FUSE AND CIRCUIT BREAKER PANEL

1. Disconnect the battery ground cable.

2. In the engine compartment at the left side of the dash panel remove the retaining screw and washer from each of the multiple connector plugs (Fig. 2).

3. Pull the connector plugs out of the fuse and circuit breaker panel retainer. When disconnecting the top plug, remove the three hoses from the panel retainer. Note the color and position of each hose.

4. Depress the four tabs that hold the panel retainer to the dash panel and push the retainer together with the panel into the passenger compartment (Fig. 2).

5. The fuse and circuit breaker panel and retainer assembly are now hanging below the instrument panel in the passenger compartment. To unlock the panel from the retainer, depress the two locking tabs, move the panel upward and the retainer downward. After unlocking, pull the panel from the retainer and remove the three hoses from the retainer noting

the color and position (Fig. 3).

6. When installing the retainer to the panel and the panel and retainer assembly to the dash panel, be sure to connect the hoses according to color code and position noted during removal.

### DASH PANEL TO ENGINE

#### REMOVAL

1. Disconnect the battery, remove the air cleaner and raise the vehicle on a hoist.

2. Remove the bolt that holds the harness retaining clip to the rear right side of the engine. Open the clip and remove it from the harness.

3. Disconnect the harness at the starter solenoid (three leads retained to the terminals by nuts). Note the color code of each lead and its terminal for proper reconnection.

4. Disconnect the three harness leads at the alternator noting the color code for proper reconnection. Remove the alternator adjusting arm bolt, loosen the through bolt and disengage the belts from the pulley. Swing the alternator upwards to pro-

vide clearance so that the harness can be pulled out between the alternator and the engine.

5. Lower the vehicle and disconnect the three multiple connector plugs at the rear left side of the engine.

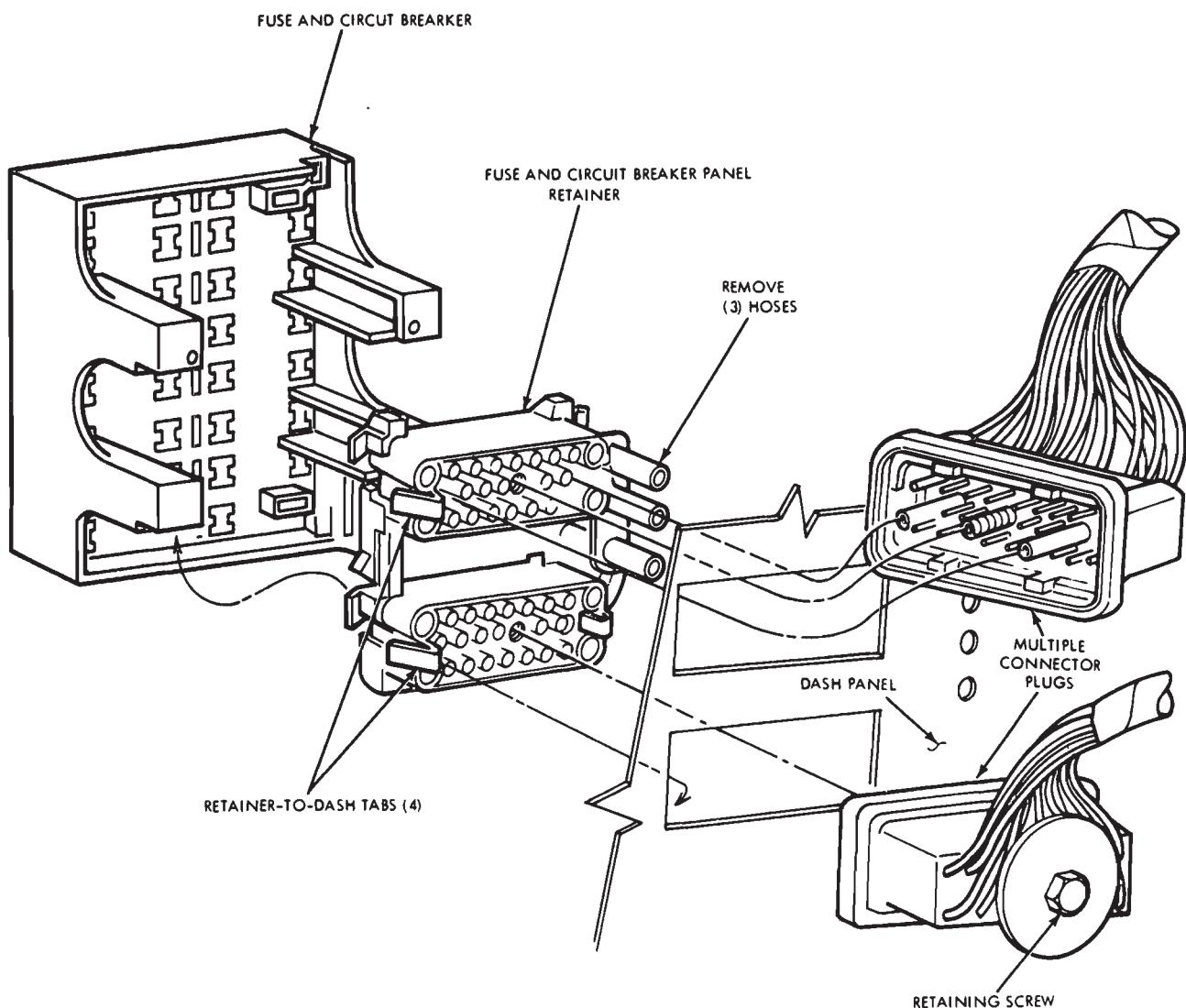
6. At the left side of the dash panel, remove the screw and washer from the lower multiple connector that plugs into the fuse and circuit breaker panel (Fig. 2). Pull the plug out of the panel retainer, and disconnect the single connector from the lead to the other harness.

7. Remove the two locators from the engine right valve cover, work the harness wiring out, and remove the plastic cover from the harness.

8. Disconnect the harness leads to the A/C clutch, the ignition coil, and the temperature gauge sending unit. Work the leads out.

9. At the voltage regulator, disconnect the ground screw, and one multiple and one single connector.

10. Remove the three harness locator clips along the right fender apron, and remove the harness retaining clip (1 bolt) from the front of the right cylinder head. Remove the harness from the vehicle.



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**FIG. 2—Removal and Installation of Fuse and Circuit Breaker Panel to Dash Panel**

### INSTALLATION

1. Position and route the complete harness by pushing the two locators in the engine right valve cover and the three locator clips along the right fender apron. Attach the harness retaining clip (1 bolt) to the front of the right cylinder head.

2. Connect the ground screw and the multiple and single connector plugs at the voltage regulator.

3. Connect the harness leads to the A/C clutch, the ignition coil and the temperature gauge sending unit.

4. Plug the multiple connector at the end of the harness into the lower part of the fuse and circuit breaker panel retainer (Fig. 2). Secure the connector to the panel retainer with retaining screw and washer. Connect

the harness single lead to the connector from the other harness.

5. At the rear left of the engine, connect the three harness multiple plugs.

6. Raise the vehicle on a hoist, route the harness leads up between the alternator and the engine, and connect the three leads to the alternator according to the color code noted during removal. Swing the alternator back into position, install the adjusting arm bolt snug, and position the belts on the pulley. Adjust the belts to specified tension (Group 31). Tighten the adjusting arm bolt and through bolt.

7. Connect the three harness leads to the terminals on the starter solenoid according to the color code noted during removal (3 retaining nuts).

8. Position and close the retaining clip on the harness and mount the clip to the rear right side of the engine (1 bolt).

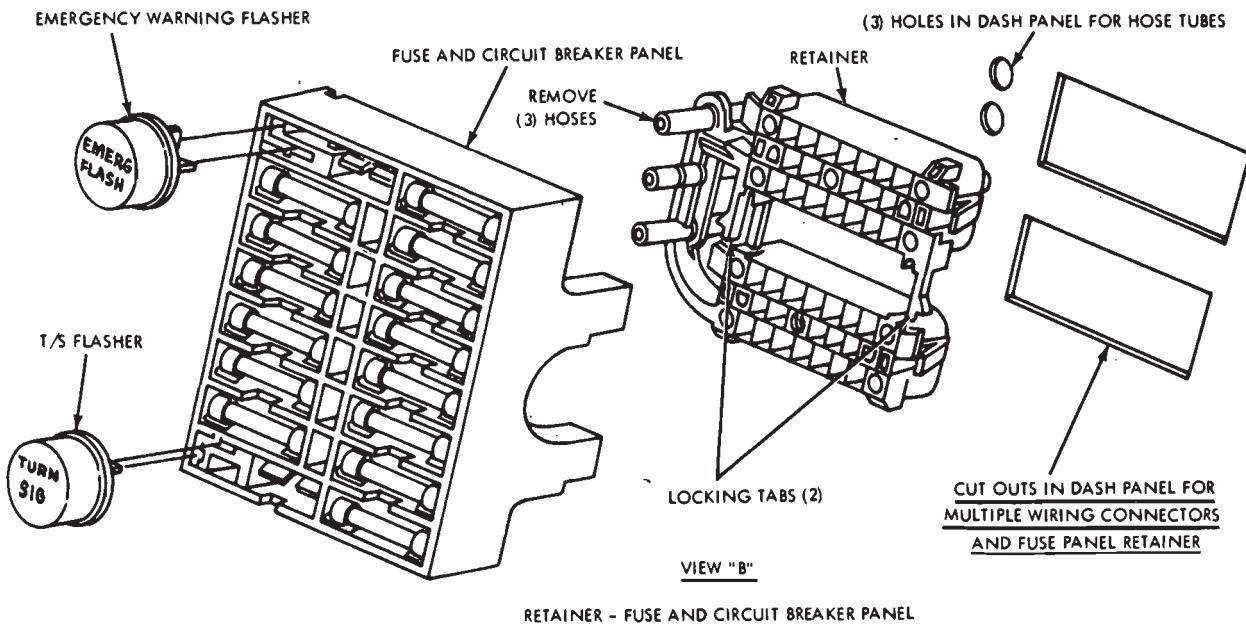
9. Lower the vehicle, install the plastic cover on the harness, and connect the battery. Install the air cleaner.

10. Check the operation of the starter, the engine, the alternator, the air conditioner and the temperature gauge.

### DASH TO HEADLIGHT JUNCTION

#### REMOVAL

1. Disconnect the battery. Disconnect the harness multiple connector (upper) from the fuse and circuit breaker panel at the left side of the



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**FIG. 3—Separation of Fuse and Circuit Breaker Panel from Retainer**

dash panel. To disconnect, remove the retaining screw and washer and remove the connector from the panel retainer (Fig. 2). Also remove the three hoses from the retainer, being sure to note the color and position of each hose.

2. Disengage the harness locators along the fender apron and pull the harness forward and out from between the left fender and fender apron.

3. Disconnect the harness ground wire from the radiator left support (1 screw) and disconnect the harness plug to the windshield washer pump.

4. Raise the front end of the vehicle. From underneath the vehicle left side, disconnect the harness connector plugs to the left parking and side marker lights. From underneath left center, reach up and disconnect the harness connectors from the two horns and the headlight cover indicator light switch.

5. From underneath the vehicle right side, disconnect the harness connector plugs to the right parking and side marker lights. From underneath right center, reach up and disconnect the harness connector from the single horn.

6. Lower the vehicle and disconnect the harness ground wire from the radiator right support (1 screw).

7. To gain access to the four headlight connector plugs, it will be necessary to remove all four headlight bulbs (Refer to Part 32-02). Discon-

nect the harness plugs from the headlights.

8. Disengage the harness locators from across the top of the radiator support, and pull the harness from the vehicle.

## INSTALLATION

1. Position and route the complete new harness starting at the radiator right support. Route the wires to the headlights, side marker lights, parking lights, horns and headlight cover indicator light switch through the openings in the radiator left and right supports. Continue the harness routing back between the left fender and fender apron to the dash panel.

2. Engage the harness locators in their holes along the left fender apron and across the radiator support.

3. Connect the harness ground wires at the radiator right and left supports (1 screw). Connect the harness plug to the windshield washer pump.

4. Connect the four harness plugs to the four headlight bulbs and install the bulbs (Part 32-02).

5. Plug the multiple connector at the end of the harness into the upper part of the fuse and circuit breaker panel at the left side of the dash panel. At the same time, connect the three hoses to the fuse and circuit breaker panel retainer according to the color and position noted during removal (Fig. 2). Secure the connec-

tor to the panel retainer with the retaining screw and washer. Connect the harness lead to the connector from the other harness.

6. Raise the front end of the vehicle. From underneath the vehicle, connect the harness leads to the right and left side marker lights, parking lights, and horns at both right and left sides of the vehicle. Connect the lead to the headlight cover indicator light switch at the left side.

7. Lower the vehicle, connect the battery and check the operation of the lights, horns, and windshield washer.

## INSTRUMENT PANEL TO DASH

### REMOVAL

1. Remove the instrument panel pad assemblies both upper and lower as described in Part 47-03.

2. Remove the shroud from the steering column.

3. Remove the clip that retains the gearshift dial indicator cable to the steering column (1 screw), and unhook the looped end of the cable from the dowel on the column.

4. Disconnect the speedometer cable and the four multiple plugs to the heater and A/C control assembly. Disconnect the light bulbs from the control assembly.

5. Disconnect the harness plug from the headlight switch and the three vacuum hoses. Note the color

and position of each hose for proper reassembly. Disconnect the switch light bulb.

6. Disconnect the harness plug from the windshield wiper switch. Disconnect the harness connector to the automatic headlight dimmer if so equipped.

7. The speedometer, the light (upper) cluster behind the speedometer, the instrument (lower) cluster and the outer trim cover can all be removed as one assembly. Disconnect the multiple plug from the back of each cluster. Disengage the harness-connected indicator lights from the upper left rear side of the light cluster by turning the sockets 1/4 turn counterclockwise. Remove three retaining screws from the upper front side of the assembly and four retaining nuts from the rear, and remove the entire cluster assembly from the instrument panel.

8. Remove the air conditioner left duct.

9. In the engine compartment at the left side of the dash panel remove the retaining screw and washer from each of the multiple connector plugs (Fig. 2). Pull the connector plugs out of the fuse and circuit breaker panel retainer. When disconnecting the top plug, remove the three hoses from the panel retainer. Note the color and position of each hose.

10. Depress the four tabs that hold the panel retainer to the dash panel and push the retainer together with the panel into the passenger compartment (Fig. 2).

11. Also on the engine side of the dash panel, disconnect the harness connectors to the windshield wiper motor and the brake indicator light switch. Push the wiring and grommet into the passenger compartment.

12. Inside the vehicle, remove the scuff plate screws and pull out the left inner cowl panel. Fold back the carpet and remove the shield from the wires on the toe board. Remove the harness locator from the left cowl. Disconnect the five multiple plugs that connect the harness to the rear of the vehicle and the two multiple push type connectors to the automatic temperature control box.

13. Disconnect the harness from the four multiple plugs to the steering column, disengage the harness from the clip on the right side of the column, and disconnect the harness plug from the stop light switch. Work the harness to the left.

14. Remove the harness retaining clip from the left side of the brake

support (1 screw). Remove the screw that retains the harness to the brake support. Disconnect the three harness single connectors to the left courtesy light and remove one harness locator from the brake support.

15. Remove the six harness clips that retain the harness to the top edge of the instrument panel (1 screw for each clip). Also remove the harness ground screw from the top edge of the instrument panel.

16. Remove the glove box and disconnect the harness plugs to the power window, low fuel relay, and seat belt indicator and map lights.

17. Disconnect the wiring and socket assembly from the cigar lighter and the harness connectors to the ash tray light and glove box lights. Disconnect the plug to the radio.

18. Disconnect the plug from the key warning buzzer (after Jan. 1, 1970), and the two plugs from the turn signal relays. Disconnect the harness connector to the Automatic Temperature Control sensor (if so equipped). Work the harness back as far as the radio, and disconnect the two single connectors to the door pillar switch.

19. Push the harness locator out of the right side of the radio, work the harness to the left in back of the brake support and remove it from the vehicle.

## INSTALLATION

1. Transfer the fuses, circuit breakers, bulbs and clips to the new harness.

2. Position and route the entire new harness as follows: Depress the four tabs on the fuse and circuit breaker panel retainer and push the assembly into place in the dash panel opening from inside the vehicle. Push the wiring and connectors for the windshield wiper motor and brake indicator light switch through the hole in the dash panel and position the grommet. Work the harness to the right in back of the brake support and then up and along the edge of the instrument panel. Engage the harness locator in the right side of the radio.

3. Connect the two single connectors to the door pillar switch. Connect the harness connector to the automatic temperature control sensor (if so equipped). Connect the two plugs to the turn signal relays and (after Jan. 1, 1970) the plug to the key warning buzzer.

4. Connect the harness connectors to the radio, ash tray and glove box

light, and the wiring and socket assembly to the cigar lighter.

5. Connect the harness plugs to the power window, low fuel relay and to the seat belt indicator and map lights. Install the glove box.

6. Fasten the six harness clips to the top edge of the instrument panel (1 screw for each clip) and connect the ground wire to the instrument panel (1 screw).

7. Push the harness locator into its hole in the brake support and connect the three single connectors to the left courtesy light. Install the screw that retains the harness to the brake support. Mount the harness retaining clip to the left side of the brake support with one screw.

8. Connect the harness plug to the stop light switch. Engage the harness in the clip on the right side of the steering column and connect the harness to the four steering column multiple plugs.

9. Connect the harness to the five multiple plugs on wires from the rear of the vehicle and to the two multiple push type connectors for the automatic temperature control box. Push the harness locator into its hole in the left cowl and install the shield over the wires at the toe board. Turn the carpet back into place, install the left inner cowl panel and install the scuff plate screws.

10. Install the air conditioner left duct.

11. From the engine side of the dash panel, connect the two multiple connector plugs from other harnesses to the fuse and circuit breaker panel (Fig. 2). When connecting the top plug, be sure to connect the hoses according to the color code and position noted during removal. Secure the plugs to the fuse and circuit breaker panel retainer with screws and washers.

12. On the engine side of the dash panel, connect the harness connectors to the windshield wiper motor and the brake indicator light switch.

13. Returning to the inside of the vehicle, position the combination cluster and trim cover assembly to the instrument panel. Install the three mounting screws at the front and the four mounting nuts at the rear. Connect the multiple plug to the back of each cluster.

Install the harness-connected indicator light bulb and socket assemblies into their receptacles at the upper left side of the light cluster. Secure by turning the sockets clockwise.

14. Connect the harness plug to the

windshield wiper switch. Connect the harness connector to the automatic headlight dimmer, if so equipped.

15. Connect the harness plug to the headlight switch. Connect the three vacuum hoses according to the color code and position noted during removal. Also connect the switch light bulb.

16. Connect the speedometer cable to the speedometer. Connect the harness to the four multiple plugs from the heater and A/C control assembly and install the light bulb and socket assemblies in the control assembly.

17. Attach the gearshift dial indicator cable retaining clip to the steering column with one retaining screw. Connect the looped end of the cable to the dowel pin on the selector rod.

18. Install the shroud on the steering column.

19. Install the instrument panel pad assemblies as outlined in Part 47-03.

# PART 36-03 Circuit Protection and Bulb Charts

COMPONENT INDEX Applies to Models As Indicated	Ford	Mercury	Meteor	Cougar	Fairlane	Falcon	Maverick	Montego	Mustang	Lincoln- Continental	Thunderbird	Continental- Mark III
BULB CHARTS	03-02	03-03	03-02	03-08	03-08	03-07	03-07	03-09	03-07	03-14	03-11	03-12
CIRCUIT PROTECTION	03-02	03-02	03-02	03-05	03-05	03-05	03-05	03-05	03-05	03-13	03-10	03-11
FUSES	03-01	03-01	03-01	03-03	03-04	03-04	03-04	03-04	03-03	03-13	03-09	03-10

A page number indicates that the item is for the vehicle(s) listed at the head of the column.

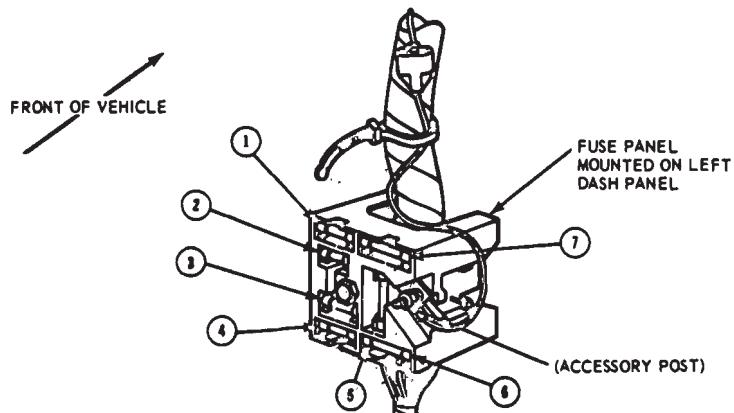
## FUSES AND CIRCUIT BREAKERS

Each vehicle has a fuse panel which contains most of the fuses used in the Electrical system. Thunderbird and Continental Mark III vehicles also have a circuit breaker panel which contains part of the circuit breakers

used in the system. Lincoln Continental has a combination fuse and circuit breaker panel which contains most of the fuses and circuit breakers used in the system. Figs. 1, 5, 6, 14, 15, 17, 18 and 21 show the fuse panels and circuit breaker panels for each vehicle line.

The locations and values of the fuses and circuit breakers not contained in the panels are given in the circuit protection charts for each vehicle line.

Bulb charts follow the fuse and circuit breaker information for each vehicle line.



- ① (14 AMP.) DOOR COURTESY, MAP, GLOVE BOX, LUGGAGE COMPARTMENT LIGHT, CLOCK FEED, OPEN DOOR WARNING, DOME LIGHT, (FORD ONLY-INSTRUMENT PANEL COURTESY, "C" PILLAR & CARGO), SEAT BACK LATCH CONTROL
- ② (4 AMP.) (INSTRUMENT PANEL LIGHTS) CLOCK, R.H. & L.H. TURN INDICATORS, SPEEDOMETER, FUEL GAGE, HEATER AND A/C CONTROLS, PRND 21 - CONSOLE OR COLUMN, RADIO ASH TRAY
- ③ (SPARE) OR (14 AMP.) EMISSION CONTROL AND/OR THROTTLE SOLENOID
- ④ (14 AMP.) HEATER & DEFROSTER
- ⑤ (20 AMP.) BACK-UP LIGHTS & RADIO FEED (MERCURY ONLY - PARKING BRAKE WARNING W/S WASHER), (MERCURY STD. HI SERIES ONLY - SEAT BELT WARNING INDICATOR)
- ⑥ (20 AMP.) (ACCY.) SEAT BELT WARNING IND., PARKING BRAKE RELEASE WARNING (RPO), REAR WINDOW DEFOGGER OR HEATED BACKLITE (PRO), DOOR AJAR, LOW FUEL, POWER WINDOW SAFETY RELAY FEED, SPEED CONTROL (MERCURY ONLY ELECTRIC ANTENNA)
- ⑦ (20 AMP.) EMERGENCY WARNING & CIGAR LIGHTER

K1585-F

FIG. 1—Fuse Panel—Ford, Meteor and Mercury

Circuit	Location	Circuit Breaker (C.B.) or Fuse in Amperes	Circuit	Location	Circuit Breaker (C.B.) or Fuse in Amperes
Headlights	Integral with Light Switch	18 C.B.	Rear Window Defroster & Seat Back Latch Power Seats	On Starter Relay	20 C.B.
Rear Tail Lights Front Parking Lights License Light Side Marker Horns Headlight Buzzer Stop Lights (Ford & Mercury)	Integral with Light Switch	15 C.B.	Air Conditioner (Mercury)	Mounted to lower center flange of instrument panel	25 C.B.
Windshield Wipers (Mercury)	Integral with Wiper Switch	7 C.B.	Air Conditioner (Ford and Meteor)	Upper Center Instrument Panel near Blower Switch	30 C.B.
Interval Windshield Wipers (Mercury)	Mounted to lower center flange of instrument panel	8.25 C.B.	Air Conditioner Dealer Installed Ford & Meteor	Cartridge in Feed Line Attached to Accy. Terminal Fuse Panel	20 Fuse
Windshield Wipers (Ford & Meteor)	In Windshield Wiper Switch	10 C.B.	Stop Lights (Mercury)	Mounted to lower R.H. flange of instrument panel	20 C.B.
Interval Windshield Wipers Ford & Meteor	Upper Center of Instr. Panel near Blower Switch	8.25 C.B.	Motors—Protected by integral circuit breakers Power Seat Power Window Convertible Top	In Motor	C.B.
Convertible Top Power Windows	On Starter Relay	20 C.B.			

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FIG. 2—Circuit Breakers and Fuses Not Located in Fuse Panel—Ford, Meteor and Mercury

Light Description	Candle Power or Wattage	Trade No.	Light Description	Candle Power or Wattage	Trade No.
<b>STANDARD EQUIPMENT</b>					
Headlamps—Hi and Lo	37.5-50 watts	4002	Instruments	2 C.	194
Headlamps—Hi Beam	37.5 watts	4001	Clock or Block Cover	2 C.	1895
Front Park & Turn Signal & Emergency Flasher	3-32 C.	1157A	Heater Control Panel	2 C.	1895
Front Side Marker Lamp	2 C.	194	<b>OPTIONAL EQUIPMENT</b>		
Rear Tail/Stop/Turn Signal Sedan	3-32 C.	1157	Spotlight	30 watts	4405
Rear Tail/Stop/Turn Signal Sta. Wgn.	3-32 C.	1157	Fog Lamps - Clear	35 watts	4415
Rear Side Marker/Lower Bulb	12 C.	105	Fog Lamp Switch	1 C.	53X
Back-Up Lamps—Sedans	32 C.	1156	Air Conditioner Control	2 C.	1895
—Sta: Wgn.	32 C.	1076	AM - Dual Channel	1.9 C.	1893
License Plate Lamp	4 C.	97	AM - Radio	1.9 C.	1893
Dome Lamp 62, 71, 54A, B & E, 57B	12 C.	105	Defogger - Rear Window	2 C.	1895
Courtesy Lamp "C" Pillars 68, 65, 57, 54C	12 C.	105	Electric Defroster - Rear Window	2 C.	1895
Instrument Courtesy Lamp Convertible	6 C.	631	Headlights On	1.6 C.	256
Cargo Lamps (Sta. Wgn. Models 71A/B/C, 71E: Optional, 71D/H/J)	12 C.	105	Ash Tray Lamp (Std. on some models)	2 C.	1891
Door Courtesy 65A	6 C.	212	AM/FM Radio Dial Light (MPX)	2 C.	1891
Door Courtesy 54C, 57F	6 C.	631	AM/FM/MPX Stereo Jewel	1.3 C.	1892
Rear Side Marker Lamp	2 C.	194	AM Stereo Tape	1.9 C.	1893
<b>INSTRUMENT PANEL</b>					
Cluster	2 C.	1895	<b>CONVENIENCE PACKAGE</b>		
Cluster Lights	2 C.	194	Low Fuel	2 C.	1895
Glove Box Lamp	3 C.	1816	Door Ajar	2 C.	1895
Hi-Beam Indicators	2 C.	194	Seat Belt	2 C.	1895
Turn Signal Indicators	2 C.	194	Parking Brake	2 C.	1891
Warning Lights, (Oil, Alt., Temp., Brakes)	2 C.	194	Glove Compartment	3 C.	1816
Seat Belt Warning (R.P.O.)	2 C.	1891	Speed Control Actuator Indicator	1 C.	161
Open Door Warning (Taxi's)	2 C.	1895	Luggage Compartment	6 C.	631
Parking Brake Release Warning (Optional)	1.6 C.	257	Portable Trunk Lamp	15 C.	1003
			Engine Compartment	6 C.	631
			Floor Shift - PRND21	1.5 C.	1895
			Auxiliary Inst. Cluster (charge indicator)	2 C.	1895

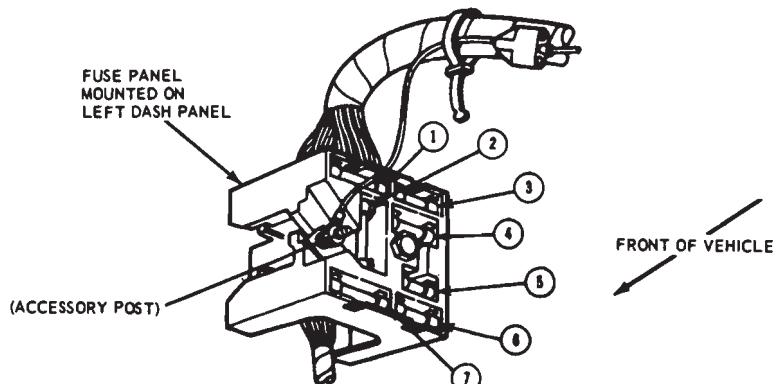
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FIG. 3—Ford and Meteor Bulb Chart

Light Description	Candle Power or Wattage	Trade No.	Light Description	Candle Power or Wattage	Trade No.
Standard Equipment Headlamps			Hot	2 c.p.	194
Hi-Lo Beam	37.5 & 50 Watts	4002	Brakes	2 c.p.	194
Hi-Beam	37.5 Watts	4001	Seat Belt	2 c.p.	194
Front Park and Turn Signal Lamp	3-32 c.p.	1157	Parking Brake	2 c.p.	194
Rear Lamp and Stop and Turn Signal (Pass. Car)	3-32 c.p.	1157	Defog	2 c.p.	194
Dome Lamp	12 c.p.	105	L & R Signal Indicator	2 c.p.	194
License Lamp	4 c.p.	97	Glove Compartment	3 c.p.	1816
Courtesy Lamp (Conv.)	6 c.p.	631	Select-Shift Transmission Selector	3 c.p.	
Cargo Lamp (Sta. Wag.)	12 c.p.	105	-Column & Console	1.5 c.p.	1445
Back-up Lamp (Sta. Wag. & Pass. Car)	32 c.p.	1156	Courtesy Lamp (Inst. Panel)	6 c.p.	631
Rear Stop and Turn (Sta. Wag.)	3-32 c.p.	1157	Ash Tray-Inst. Panel	1.5 c.p.	1445
Rear Running Lamp (Sta. Wag.)	4 c.p.	1095	Heater Control	1.5 c.p.	1445
Courtesy Lamp (Door Mtd.)	6 c.p.	212	Accessory Equipment		
Courtesy Lamp (''C'' Pillar)	12 c.p.	105	Clock	2 c.p.	194
Courtesy Lamp-Inst. Panel	6 c.p.	631	Engine Compartment Lamp	6 c.p.	631
Front & Rear Side Marker	2 c.p.	194	Radio and Stereo Tape Pilot Light	2 c.p.	1893
Instrument Panel			AM/FM Multiplex and AM Pilot	2 c.p.	1893
Gauges, Speedometer	2 c.p.	194	Luggage Compartment Lamp	6 c.p.	631
Hi-Beam Indicator	2 c.p.	194	Spotlamp (4.40 dia.)	30 Watts	4405
Warning Lights			Air Conditioner	2 c.p.	1895
Oil	2 c.p.	194	Fog Lamps (Amber)	35 Watts	4415A
Alternator	2 c.p.	194	Fog Lamp Switch (Illum.)	1 c.p.	161
			Map Lamp	3 c.p.	1816
			Tachometer	2 c.p.	1895

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FIG. 4—Mercury Bulb Chart



- ① (15 AMP.) TURN SIGNALS, BACK-UP LIGHTS, WINDSHIELD WASHER, RADIO AND STEREO TAPE FEED, PRND 21 LIGHT
- ② (15 AMP.) (ACCESSORY FEED) SEAT BELT WARNING (PRO), (PRO) SAFETY CONVENIENCE CIRCUIT-DOOR AJAR, LOW FUEL, POWER WINDOW SAFETY RELAY FEED, REAR WINDOW DEFOGGER
- ③ (14 AMP.) HEATER & DEFROSTER  
(30 AMP.) AIR CONDITIONER      NOTE: (30 AMP. REQUIRED FOR AIR/COND.)
- ④ (SPARE) OR (14 AMP.) REQUIRED FOR EMISSION CONTROL AND/OR THROTTLE SOLENOID
- ⑤ (4 AMP.) INSTRUMENT & CLUSTER LIGHTS, RADIO, HEATER AND A/C CONTROLS, CLOCK, ASH TRAY LIGHT
- ⑥ (14 AMP.) COURTESY, INSTRUMENT, DOOR, DOME, MAP, GLOVE BOX, "C" PILLAR, LUGGAGE COMPARTMENT LIGHT, CLOCK FEED, CIGAR LIGHTER
- ⑦ (20 AMP.) EMERGENCY WARNING, HORN (MUSTANG ONLY)

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FIG. 5—Fuse Panel—Mustang and Cougar

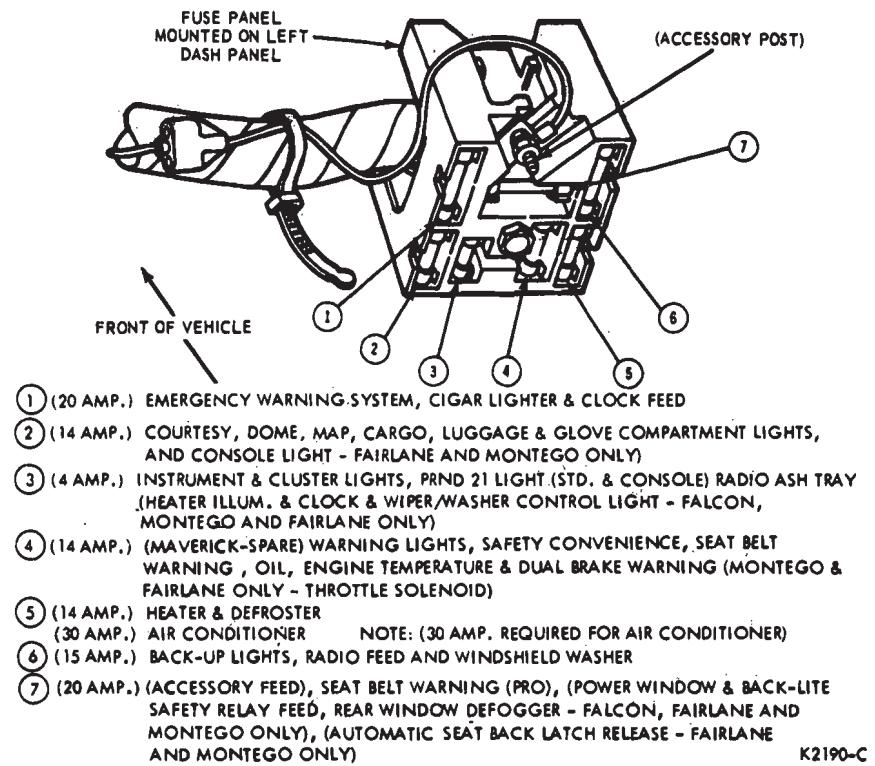


FIG. 6—Fuse Panel—Falcon, Maverick, Fairlane and Montego

Circuits	Location	Protective Device Fuse or Circuit Breaker (C.B.) in Amperes				
		Cougar	Fairlane	Falcon/ Maverick	Montego	Mustang
Ash Tray Light	Fuse Panel	SFE 4	SFE 4	SFE 4	SFE 4	SFE 4
Automatic Seat Back Latch Release			AGC or SFE 20			
Back-Up Light		AGC or SFE 15	AGC or SFE 15	AGC or SFE 15	AGC or SFE 20	AGC or SFE 15
Cigar Lighter		SFE 14	AGC or SFE 20	AGC or SFE 20	AGC or SFE 20	SFE 14
Clock Feed		SFE 14	AGC or SFE 20	AGC or SFE 20	AGC or SFE 20	SFE 14
Convertible Top Feed	Attached to Starting Motor Relay	20 C.B.	20 C.B.		20 C.B.	20 C.B.
Convertible Top Motor	Integral Part of Motor	C.B.	C.B.	C.B.	C.B.	C.B.
Courtesy Lights C Pillar Cargo Console (Fairlane and Montego Only) Door Dome Glove Compartment Luggage Compartment Map Light	Fuse Panel					
Emergency Flashers		SFE 14	SFE 14	SFE 14	SFE 14	SFE 14
Emission Control and/or Throttle Solenoid		SFE 14	SFE 14		SFE 14	SFE 14
Engine Compartment Light	Cartridge in Feed Line	SFE 7.5			SFE 7.5	SFE 7.5
Headlights	In Headlight Switch	18 C.B.	18 C.B.	12 C.B.	18 C.B.	12 C.B.
Heater and Defroster	Fuse Panel	SFE 14	SFE 14	SFE 14	SFE 14	SFE 14
Heater and Defroster With Air Conditioner	Fuse Panel	8 AG or AGX 30	8 AG or AGX 30	8 AG or AGX 30	8 AG or AGX 30	8 AG or AGX 30
Horns	In Headlight Switch	15 C.B.	15 C.B.	15 C.B.	15 C.B.	15 C.B.
Indicator Lights (Convenience Control Panel) Door Ajar	Fuse Panel	AGC or SFE 15				
Dual Brake			SFE 14	SFE 14	SFE 14	
Engine Temperature			SFE 14	SFE 14	SFE 14	
Low Fuel		AGC or SFE 15				
Oil			SFE 14	SFE 14	SFE 14	
Seat Belt (Instrument or Convenience Control Panel)		AGC or SFE 15	SFE 14	SFE 14	AGC or SFE 20	AGC or SFE 15
Instrument Panel Lights Clock Light Heater and A/C Controls Radio	Fuse Panel	SFE 4	SFE 4	SFE 4	SFE 4	SFE 4
Windshield Wiper/Washer Controls			SFE 4		SFE 4	

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FIG. 7—Circuit Protection Chart—Mustang, Cougar, Falcon, Maverick, Fairlane and Montego

Circuits	Location	Protective Device Fuse or Circuit Breaker (C.B.) in Amperes				
		Cougar	Fairlane	Falcon/ Maverick	Montego	Mustang
License Lights	In Headlight Switch	15 C.B.	15 C.B.	15 C.B.	15 C.B.	15 C.B.
Marker Lights						
Parking Lights						
Parking Brake Indicator Light	Fuse Panel					AGC or SFE 15
Power Backlight	Attached to Starting Motor Relay		20 C.B.	20 C.B.③	20 C.B.	
Power Backlight Motor	Integral with Motor		C.B.	C.B. ③	C.B.	
Power Backlight Relay Feed	Fuse Panel		AGC or SFE 20	AGC or SFE 20 ③		
Power Seats	On Starter Relay				20 C.B.	
Power Seats Motors	Integral Part of Motor				C.B.	
Power Tailgate	Attached to Starting Motor Relay		20 C.B.			
Power Tailgate Motor	Integral Part of Motor		C.B.			
Power Window	Attached to Starting Motor Relay	20 C.B.	20 C.B.		20 C.B.	
Power Window Motor	Integral with Motor	C.B.	C.B.		C.B.	
Power Window Relay Feed	Fuse Panel	AGC or SFE 15	AGC or SFE 20	AGC or ③ SFE 20	AGC or SFE 20	
PRNDL (Auto. Trans.)	Fuse Panel	15 C.B. ①	SFE 4	SFE 4	SFE 4	15 C.B. ①
Radio and/or Stereo Tape Feed	Fuse Panel	AGC or SFE 15	AGC or SFE 15	AGC or SFE 15	AGC or SFE 20	AGC or SFE 15
Rear Window Defogger	Fuse Panel	AGC or SFE 15	AGC or SFE 20	AGC or SFE 20	AGC or SFE 20	
Spotlight	Cartridge in Feed Wire-	SFE 7.5	SFE 7.5			
Stop Lights	In Headlight Switch	15 C.B. ①	15 C.B.	15 C.B.	15 C.B.	15 C.B.
Taillights	In Headlight Switch	15 C.B.	15 C.B.	15 C.B.	15 C.B.	15 C.B.
Transmission Selector Light	Fuse Panel	15 C.B. ①	SFE 4	SFE 4	SFE 4	15 C.B. ①
Turn Signals		AGC or SFE 20	AGC or SFE 20	AGC or SFE 20	AGC or SFE 20	AGC or SFE 15
Windshield Washers						
Windshield Wipers	Windshield Wiper Switch	6 C.B.	8 C.B.	8 C.B.	8 C.B.	6 C.B.
Windshield Wiper Motor	Integral Part of Motor	C.B.	C.B.	C.B.	C.B.	C.B.

①Integral With Headlight Switch  
 ②Bracket Attached to L.H. Lower Instrument Panel  
 ③Instrument Panel Mounted Light used AGC or SFE 20  
 ④Economy Dealer-Installed A/C used AGC or SFE 20  
 ⑤Falcon Only

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FIG. 8—Circuit Protection Chart—Mustang, Cougar, Falcon, Maverick, Fairlane and Montego (Cont.)

Lamp Description	Candle Power or Wattage	Trade No.	Lamp Description	Candle Power or Wattage	Trade No.
<b>STANDARD EQUIPMENT</b>					
Headlamps	40-50 watts	6012	Spotlight—4.4" Dia.	30 watts	4405
Front Park/Turn Signal (Maverick)	3-32 c.p.	1157A	Air Cond. Controls	2 c.p.	1895
Front Park/Turn Signal (Falcon)	3-32 c.p.	1157	Radio Pilot Light	1.9 c.p.	1893
Rear Tail/Stop/Turn	3-32 c.p.	1157	Auto. Trans. Quadrant	1.5 c.p.	1445
Back-up Light	32 c.p.	1156	Tachometer Light (Round)	2 c.p.	1895
Back-up Light (Falcon Station Wagon)	32 c.p.	1076	Hood Mounted (Maverick)	2 c.p.	57
License Plate Lamp	4 c.p.	97	Luggage Comp. Light (Maverick)	6 c.p.	631
Dome Lamp	12 c.p.	105	Seat Belt Warning (Maverick)	2 c.p.	1895
Front & Rear Side Marker Lamp	2 c.p.	194	Falcon only Courtesy Light (Inst. Panel)	6 c.p.	562
<b>INSTRUMENT PANEL</b>					
Hi-Beam Indicator	2 c.p.	194	Clock Light	3 c.	1816
Turn Signal Indicators	2 c.p.	194	Luggage Comp. Light	12 c.	105
Warning Lights (Oil, Alt., Hot, Brakes)	2 c.p.	194	Portable Trunk Light	15 c.	1003
Speedometer & Fuel Gauge	2 c.p.	194	Parking Brake	16 c.	257
Heater Controls	2 c.p.	1895	Warning		
Ash Tray Light (Maverick)	1.5 c.p.	1445	Engine Compt.	6 c.	631
			Map Light	6 C.	631
			Cargo Light	12 C.	105

FIG. 9—Falcon and Maverick Bulb Chart

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Light Description	Candle Power or Wattage	Trade No.	Light Description	Candle Power or Wattage	Trade No.
<b>STANDARD EQUIPMENT</b>					
Headlamps—Hi & Lo	40-50 Watts	6012	COURTESY LAMP (Continued)	6 c.	631
Front Park & Turn Signal	3-32 c.	1157②	Fog Lamps	35 Watts	4415
Front Side Marker	4 c.	97 ③	Fog Lamp-Switch	1 c.	53X
Rear Tail/Stop/Turn Signal	3-32 c.	1157	Map Lamp	15 c.	1004
Four Way Emergency Flashers—Included in Front & Rear Turn Signals			Spotlight 4.4" dia.	30 Watts	4405
Back-Up Lamp	32 c.	1156	R & L Turn Signal Indicators (Outside—in Hood Scoop) All except Grande Hardtop.	1 c.	53X
License Plate Lamp	4 c.	97	Radio Pilot Light (AM Radio)	1.9 c.	1893
Courtesy Lamp—Fastback 64 "C" Pillar	12 c.	105	Warning Light—Brake	1.6 c.	256
Courtesy Lamp—Under inst. Pnl. (63 & 76)			Conv. Pkg. Seat Belt	2 c.	1891
Dome Courtesy (65 only)	12 c.	105	Trans. Control Selector Indicator	1.5 c.	1445
Hood Mtd. Turn Signals (Mach I)	1 c.	53X	Headlights On	1.6 c.	0000
Rear Side Marker Lamp	2 c.	194	Luggage Compt. Lamp	6 c.	631
<b>INSTRUMENT PANEL</b>			Engine Compt. Lamp	6 c.	631
Hi-Beam Indicator	2 c.	194	Portable Trunk Lamp	15 c.	1003
Turn Signal Indicators	2 c.	194	Clock	2 c.	1895
Turn Signal Indicators are also Emergency Flasher Indicators			AM/FM (MPX) Radio	1.9 c.	1893
*Warning Lights—Oil, Alt. & Brakes ②	2 c.	194	Warning Light Belts	2 c.	1891
Glove Compt./Light	2 c.	1891	Door Courtesy R.P.O.	6 c.	212
Instruments	2 c.	194	Radio AM-Stereo Type	9 c.	1893
Seat Belt Warning Light R.P.O.	1.5 c.	1445	② Oil and Alternator Warning Lights used with Tachometer installation only.		
Heater Control	2 c.	1895	③ Natural Amber.		
<b>OPTIONAL EQUIPMENT</b>					
Ash Tray (Console)	1.3 c.	1892			
Ash Tray (Instrument Panel)	1.5 c.	1445			

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FIG. 10—Mustang Bulb Chart

Lamp Description	Candle Power or Wattage	Trade No.	Lamp Description	Candle Power or Wattage	Trade No.
Headlamps—Hi & Lo	37.5 & 50 Watts	4002	<b>WARNING LAMPS</b>		
Headlamps—Highbeam	37.5 Watts	4001	All Except XR-7 Models		
Front Park and Turn Signal	3-32 C.P.	1157A	Low "Fuel"	2 C.P.	1895
Rear Tail, Stop and Turn Signal	3-32 C.P.	1157	"Door" Ajar	1.6 C.P.	257
Front Side Markers	4 C.P.	97NA	Seat Belts	2 C.P.	1895
Rear Side Markers	2 C.P.	194	"Park" Brake	2 C.P.	194
License Plate Lamp	4 C.P.	97	"Brakes"	2 C.P.	194
Auto-Trans Quadrant	1.5 C.P.	1445	"Lights"	2 C.P.	194
Luggage Compartment	6 C.P.	631	"Alternator"	2 C.P.	194
Back-Up Lamp	32 C.P.	1156	"Oil"	2 C.P.	194
Courtesy Lamps—Under Panel	6 C.P.	562	<b>XR-7 MODELS</b>		
Courtesy Lamps—Pillar	12 C.P.	105	Low "Fuel"	2 C.P.	194
Courtesy Lamps—Door	6 C.P.	212	"Door" Ajar	2 C.P.	194
Console Lamp	3 C.P.	1816	Seat "Belts"	2 C.P.	194
<b>INSTRUMENT PANEL</b>			"Park" Brake	2 C.P.	194
Speedometer	2 C.P.	194	"Brakes"	2 C.P.	194
Gauges	2 C.P.	194	"Lights"	2 C.P.	194
Hi-Beam	2 C.P.	194	<b>OPTIONAL EQUIPMENT</b>		
Turn Signal Indicators	2 C.P.	194	Heater—Air Conditioner Control	1.5 C.P.	1445
Clock	2 C.P.	1895	Radio AM	1.9 C.P.	1893
Cluster Illumination	2 C.P.	194	Radio AM-FM	1.9 C.P.	1893
Ash Tray	1.5 C.P.	1445	Radio AM-Tape Player	1.9 C.P.	1893
Ash Tray—Console	1.3 C.P.	1892	Engine Compartment	6 C.P.	631
Map Lamp	3 C.P.	1816	Spotlight	30 Watt	4405
Glove Compartment	3 C.P.	1816			

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FIG. 11—Cougar Bulb Chart

Light Description	Candle Power or Wattage	Trade No.	Light Description	Candle Power or Wattage	Trade No.
<b>STANDARD EQUIPMENT</b>			<b>INSTRUMENT PANEL (Continued)</b>		
Headlamps—Hi & Lo	37.5 & 50 Watts	4002	Indicators—Included in Turn Signal Indicators		
Headlamps—Hi-Beams	37.5 Watts	4001	<b>OPTIONAL EQUIPMENT</b>		
Front Park/Turn/Side Marker	3-32 C.	1157A①	Courtesy Lamp	6 C.	631
Rear Tail/Stop/Turn Sedan	3-32 C.	1157	Fog Lamps—Clear	35 Watts	4415
Sta. Wagon	3-32 C.	1157	Fog Lamp Switch	1 C.	53X
Back-up Lamps	32 C.	1156	Glove Compartment	2 C.	1891
License Plate Lamp	4 C.	97	Spotlight—4.4" Dia.	30 Watts	4405
Sta. Wagon	4 C.	97	Radio Pilot Light (AM Radio)	1.9 c.p.	1893
Dome Lamp	12 C.	105	Tachometer	2 C.	1895
Hood Mtd. Turn Signals (GT)	2 C.	1895	Auto. Trans. Quadrant	1.5 C.	1445
Emergency Flashers— Included in Front & Rear Turn Signals			Console Lamp	3 C.	1816
Front Side Marker	2 C.	194	Luggage Comp. Light	12 C.	105
Rear Side Marker	2 C.	194	Floor Shift Quadrant	1.5 C.	1445
<b>INSTRUMENT</b>			Parking Brake—Warning	2 C.	1895
<b>PANEL CLUSTER</b>			Engine Compartment	6 C.	631
Courtesy Lamp (Conv. only)	Fuse Type	562	Portable Trunk Lamp	15 C.	1003
Hi-Beam Indicator	2 C.	194	Aux. Inst. Cluster	2 C.	1895
Turn Signal Indicators	2 C.	194	Map Lamp	6 C.	631
Warning Lights (Oil, Alt., Brake System)	2 C.	194	Cargo Lamp—Sta. Wag.	12 C.	105
Fuel Gauge-Speedometer	2 C.	194	AM/FM (MPX) Radio	1.9 C.	1893
Heater (or A/C opt.) Bar	2 C.	1895	Hood Mtd. Turn Signals (optional with Hi Perf. Eng)	2 C.	1895
Clock (optional)	2 C.	1895	Ash Tray	1.5 C.	1445
Deluxe Seat Belt (option)	2 C.	1895	Headlights—On	2 C.	1859
Emergency Flasher			①Amber		

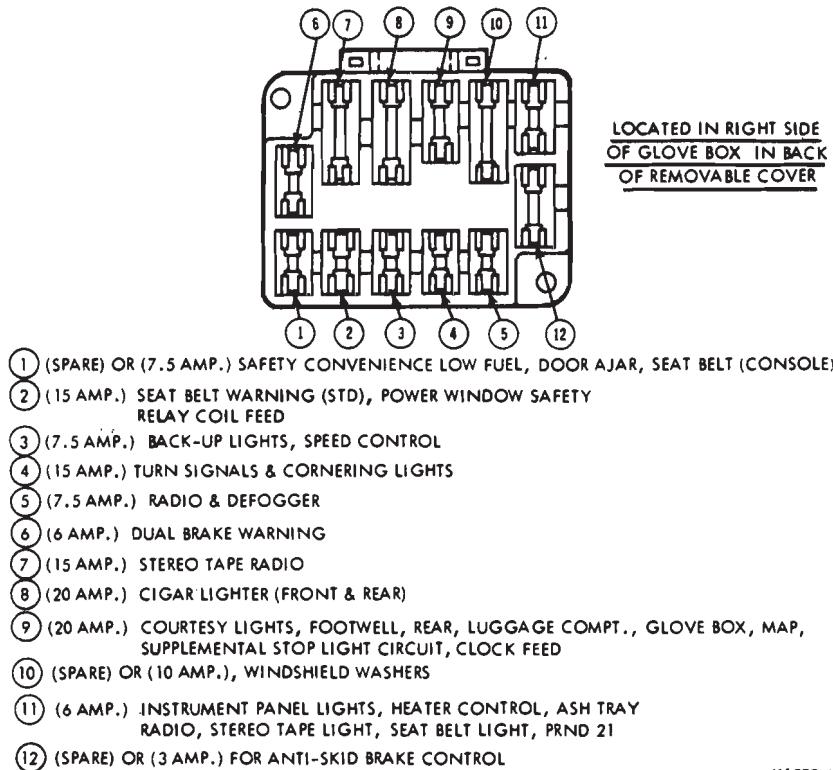
CK2468-A

FIG. 12—Fairlane Bulb Chart

Lamp Description	Candle Power or Wattage	Trade No.	Lamp Description	Candle Power or Wattage	Trade No.			
<b>STANDARD EQUIPMENT</b>								
Headlamps			Hi-Beam	2 c.p.	194			
Hi-Lo Beam	37.5 & 50 Watts	4002	Radio Dial	2 c.p.	1893			
Hi-Beam	37.5 Watts	4001	Turn Signal	2 c.p.	194			
Front Park and Turn	3-32 c.p.	1157A	Clock	2 c.p.	1895			
Rear, Stop and Turn (Passenger)	3-32 c.p.	1157	Instrumentation Package	2 c.p.	194			
Rear, Stop and Turn (Station Wagon)	3-32 c.p.	1157	Ashtray	1.5 c.p.	1445			
License Plate Lamp	4 c.p.	97	PRND21 (Column)	1.5 c.p.	1445			
Dome Lamp	12 c.p.	105	<b>ACCESSORY EQUIPMENT</b>					
Back-up Lamp	32 c.p.	1156	Glove Compartment	2 c.p.	1891			
Front Side Marker	2 c.p.	194	Luggage Compartment	12 c.p.	105			
Rear Side Marker	2 c.p.	194	Engine Compartment	6 c.p.	631			
<b>INSTRUMENT PANEL</b>								
Warning Lights	2 c.p.	194	Spot Lamp	30 Watt	4405			
Instrument (Speed-O & Gauges)	2 c.p.	194	Courtesy Lamp (In Instr. Panel)	6 c.p.	562			
			Cargo Lamp (Wagon)	12 c.p.	105			
			Tachometer	2 c.p.	1895			
			Cluster	2 c.p.	1895			

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FIG. 13—Montego Bulb Chart



K1380-H

FIG. 14—Fuse Panel—Thunderbird

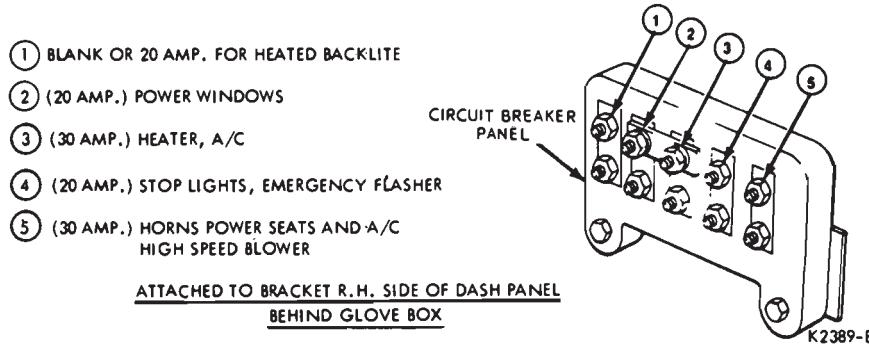
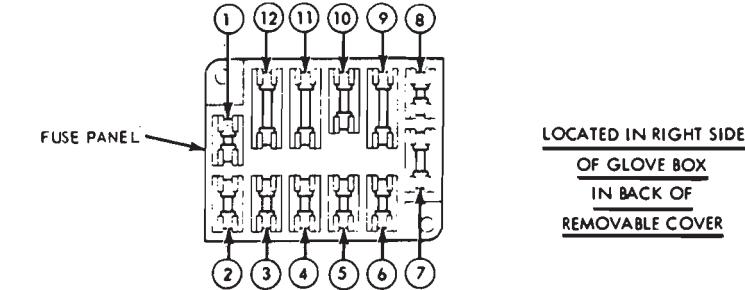


FIG. 15—Circuit Breaker Panel—Thunderbird

Circuit	Rate	Location	Circuit	Rate	Location
Parking Lights	15 AMP	In Headlight Switch	Power Seat	Integral	In Motor Assembly
License Light			Power Windows	Integral	In Headlight Switch
Tail Lights			Headlight Circuit	18 AMP	In Wiper Switch
Marker Lights			Windshield Wiper	Integral	On Brake Pedal Support
Headlight Buzzer			Rear Window Defroster	20 AMP	
Motors					

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FIG. 16—Circuit Breakers Not Located in Panel—Thunderbird and Continental Mark III



- ① (7.5 AMP. FUSE) DOOR ADJAR WARNING SEAT BELT WARNING BRAKE SYS. WARNING ENGINE TEMP FUEL GAUGE
- ② (7.5 AMP. FUSE) LOW FUEL WARNING
- ③ (7.5 AMP. FUSE) POWER WINDOW SAFETY RELAY COIL FEED,
- ④ (7.5 AMP. FUSE) BACK-UP LAMPS SPEED CONTROL
- ⑤ (7.5 AMP. FUSE) TURN SIGNALS
- ⑥ (7.5 AMP. FUSE) WINDSHIELD WASHER REAR WINDOW DEFOGGER
- ⑦ (SPARE OR 3 AMP. FUSE) SURE-TRACK BRAKE SYS.
- ⑧ (6 AMP. FUSE) ILLUMINATION LAMPS INSTRUMENT PANEL CLUSTER RADIO PRND 21 HEATER/A.C. CONTROLS ASH TRAY
- ⑨ (15 AMP. FUSE) POWER ANTENNA
- ⑩ (14 AMP. FUSE) COURTESY LAMPS, CLOCK FEED, LUGGAGE COMPT. LAMP, GLOVE COMPT. LAMP, ENGINE COMPT. LAMP, MAP LAMP AND REAR READING LAMPS
- ⑪ (15 AMP. FUSE) FRONT LIGHTERS, RADIO AND STEREO TAPE
- ⑫ (15 AMP. FUSE) REAR LIGHTERS

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FIG. 17—Fuse Panel—Continental Mark III

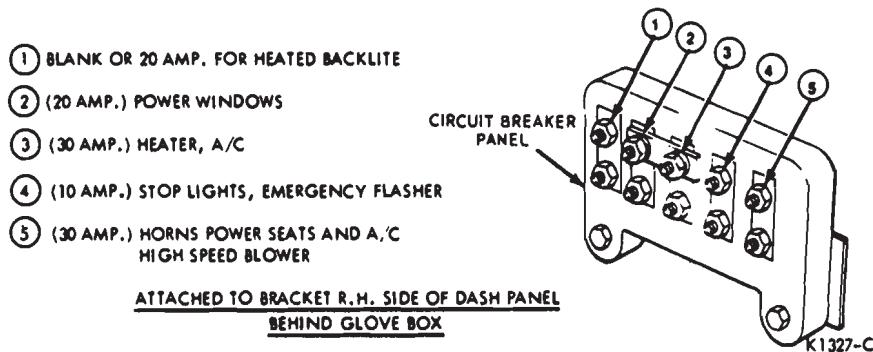


FIG. 18—Circuit Breaker Panel—Continental Mark III

Light Description	Candle Power or Wattage	Trade No.	Light Description	Candle Power or Wattage	Trade No.	
<b>STANDARD EQUIPMENT</b>						
Headlamps—Hi & Lo	37.5 & 50 Watts	4002	Hi-Beam Indicator	2 c.	194	
Headlamps—Hi Beams	37.5 Watts	4001N	Turn Signal Indicators	2 c.	168A	
Front Park and Turn Signal	3-32 c.	1157A	Instruments	2 c.	194	
Rear Tail/Stop/Turn Signal	3-32 c.	1157	Control Nomenclature—			
License Plate	4 c.	97	Wiper/Washer	2 c.	194	
Floor Console Ash Tray	1.5 c.	1445	Heater-A/C Controls	2 c.	1895	
"C" Pillar	12 c.	105	<b>OPTIONAL EQUIPMENT</b>			
Auto. Trans. Quadrant	1.5 c.	1445	Supplemental Parking Lamps	6 c.	90	
Door Courtesy	6 c.	212	Fog Lights	35 Watts	4415	
Luggage Compartment	6 c.	631	Fog Lights Switch	1 c.	53X	
Glove Compartment	2 c.	1895	Radio Pilot Light (All)	1.9 c.	1893	
Back-up Lamps	32 c.	1156	Spotlight	30 Watts	4405	
Front Side Marker	2 c.	194A	Parking Brake Signal	2 c.	1895	
Front Cornering Lamp	50 c.	1196	Engine Compartment	6 c.	631	
Front Side Marker Lamp	2 c.	194	Portable Trunk Lamp	15 c.	1003	
Cigar Lighter	1.5 c.	1445	High Level Taillamps	32 c.	1156	
Rear Side Marker Lamp	2 c.	194	Convenience Check Group			
<b>INSTRUMENT PANEL</b>						
Map	6 c.	212	Low Fuel	2 c.	1891	
Brake and Belt Warnings	2 c.	194	Lights On	2 c.	1891	
Glove Compartment	2 c.	1895	Door Ajar	2 c.	1891	
Instrument Panel Courtesy	6 c.	631	Seat Belt	2 c.	1891	
Ash Tray	1.5 c.	1445	Rear Window Electric Defrost Warning	1.3 c.	1892	

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FIG. 19—Thunderbird Bulb Chart

Light Description	Candle Power or Wattage	Trade No.	Light Description	Candle Power or Wattage	Trade No.
Headlight -Hi-Lo Beam	37.5 & 50 W.	4002			
Headlight -Hi Beam	37.5 W.	4001			
Front Park & Turn Signal	3-32 c.	1157NA			
Rear Tail/Stop/Turn Signal	3-32 c.	1157			
Back Up Light	32 c.	1156			
License Plate Light	4 c.	97			
Rear Seat Reading Light	12 c.	105			
Glove Compartment Light	2 c.	1895			
Transmission Control Selector					
Indicator Ligh	1.5 c.	1445			
Door Courtesy Lights	6 c.	212			
Map Light	6 c.	212			
Front Side Marker Light	4 c.	97NA			
Rear Side Marker Light	4 c.	97			
Luggage Compartment Light	6 c.	90			
Overhead Console Warning Lights	2 c.	1891			
<b>INSTRUMENT PANEL:</b>					
Courtesy Lights			6 c.		631
Hi-Beam Indicator			2 c.		194
Turn Signal Indicators			3 c.		168-A
Warning Lights, Brake & Low Fuel			2 c.		194
Warning Light Rear					
Window Defroster			1.3 c.		1892
Instrument Illumination Light			2 c.		194
Radio Dial Light			1.9 c.		1893
Heater/Air Cond./Auto. Temp.					
Control Light			2 c.		1895
Wiper Control Lights			2 c.		194
Cigar Lighter Light			2 c.		1895
Speed Control Light			1 c.		53X
Ash Tray Light			1.5 c.		1445

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FIG. 20—Continental Mark III Bulb Chart

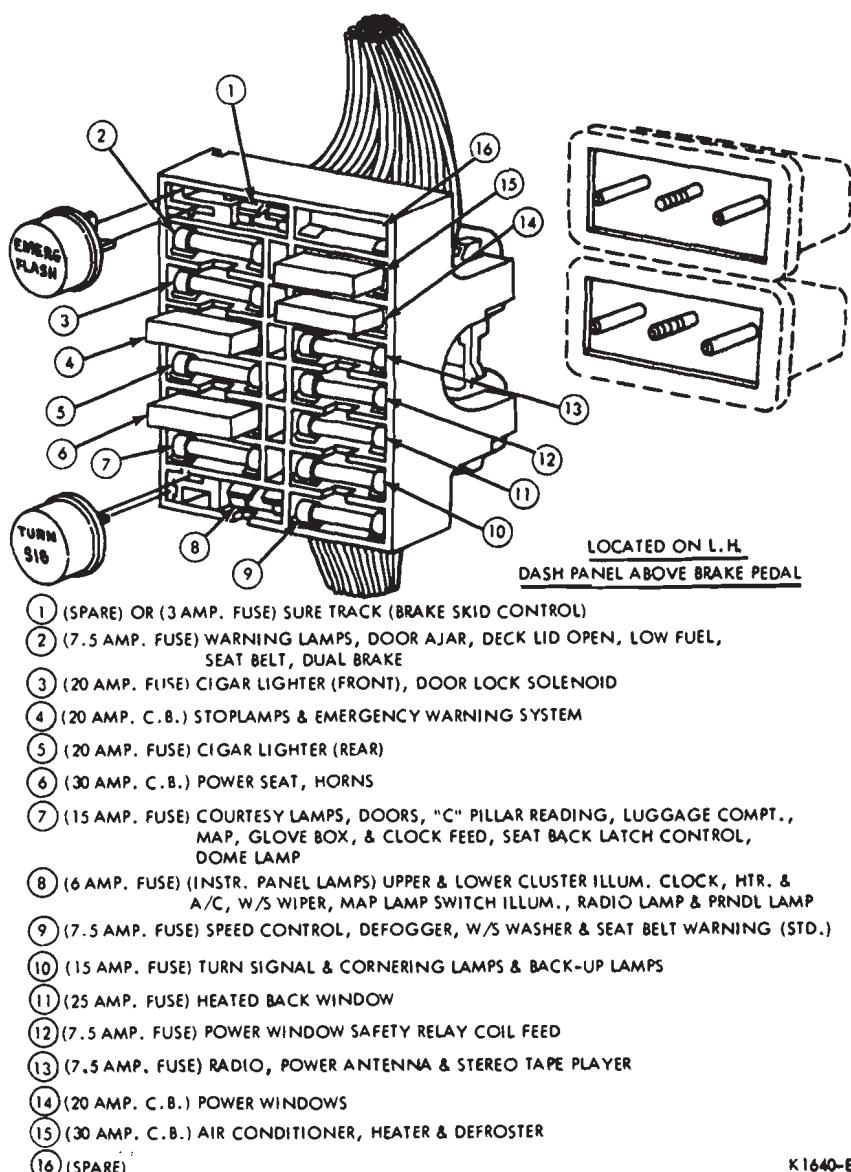


FIG. 21—Fuse and Circuit Breaker Panel—Lincoln Continental

Circuit	Rate	Location		Circuit	Rate	Location
Automatic Headlamp Dimmer	4 AMP SFE-4	In-Line Fuse		Headlights Headlight Door Open Warning Light	18 AMP C.B.	In Headlight Switch
Parking Lights License Light Tail Lights Ash Receptacle Light Marker Lights	15 AMP C.B.	In Headlight Switch		Motors Power Seat Power Windows	C.B.	In Motor Assembly
				Windshield Wiper	7.5 AMP Fuse	In Wiper Switch

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FIG. 22—Fuses and Circuit Breakers Not Located in Panel—Lincoln Continental

Light Description	Candle Power or Wattage	Trade No.	Light Description	Candle Power or Wattage	Trade No.
Headlamps	37.5 & 50 watts	4002	Glove Compartment	2 c.p.	1895
Hi-Lo Beam	37.5	4001	L & R Turn Signal Indicator	2 c.p.	1895
Hi-Beam	37.5	4001	Hi Beam Indicator	2 c.p.	1895
Front Parking Lamps and Turn Signal	3-32 c.p.	1157A	Heater Control	2 c.p.	1895
Front Side Marker	2 c.p.	194-A	Courtesy Lamp	6 c.p.	631
Rear Side Marker	2 c.p.	1895	Illumination	2 c.p.	1895
Rear Lamp, Stop and Turn Signal	3-32 c.p.	1157	Speedometer	2 c.p.	1895
Rear Seat Reading	12 c.p.	105	Clock	2 c.p.	1895
Luggage Compartment	6 c.p.	631	Ash Tray (instr. Panel and Rear Doors)	1.5 c.p.	1445
License Plate	4 c.p.	97	Door Lock Nomenclature	2 c.p.	1895
Back-up Lamp	32 c.p.	1156	Low Fuel Warning	2 c.p.	1895
Courtesy Lamp (Door) 4-Door	6 c.p.	212	Auto. Trans. Ind. Lamp	1.5 c.p.	1445
MAP	6 c.p.	212	Radio AM Signal Seeking	1.9 c.p.	1893
*212-1 Used in 2-Door Models			Radio AM-FM Stereo	2.0 c.p.	1891
<b>INSTRUMENT PANEL</b>			Radio AM-Stereo Tape	1.9 c.p.	1893
Warning Lights	2 c.p.	1891	Engine Compartment	6 c.p.	631
			Speed Control Illumination	1.5 c.p.	1445

FIG. 23—Lincoln Continental Bulb Chart

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